Hydrology and Earth System Sciences Discussions

Interactive comment on "Calibration of hydrological model parameters for ungauged catchments" *by* A. Bárdossy

A. Bárdossy

1. A figure and a table with catchment descriptors is added to the revised version of the paper. None of the catchments are nested in order to avoid problems with routing. I haven't tested the method for nested catchments but it could be an interesting exercise.

2. The description of the Hausdorff dimension was slightly modified. The reason for leaving it in the text is that it relates the first and the second examples and it shows that even if there are many possible candidate parameters they are not wildly distributed in the multidimensional space.

3. The physical motivation of the transfer is discussed to a small extent. The motivation of the methodology comes from the first example showing that parameters cannot be

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treated separately. The reasons when transfers are possible are not cleared. The conditions given in the algorithm seem to be sufficient for a transfer - but it might be that they are not the necessary conditions.

4. Several additional references were added to put the paper more into the context of present literature.

5. The minor comments were all considered.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 3, 1105, 2006.

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