Post-processing of MOPEX hydrologic simulations

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Post-processing is necessary to correct statistical inconsistencies of the simulations produced by atmospheric models and hydrologic models. This talk presents a "General Linear Model" (GLM) to post-process simulation outputs from hydrologic models. The goals of this post processor are: (i) correct model biases; (ii) produce an ensemble of hydrographs that are equally likely representations of the one that did actually occur; (iii) produce an ensemble mean value that is correlated with observed values (for any time interval) at least as well as the historical simulation. The model was tested to see how well the goals were met when applied to daily historical simulated hydrographs from the Third Workshop on Model Parameter Estimation Experiment (MOPEX).