

## ***Interactive comment on “Uncertainty in river discharge observations: a quantitative analysis” by G. Di Baldassarre and A. Montanari***

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We would like to thank the Editor and the Reviewers for doing excellent work and providing very useful observations and comments, which truly helped us in improving the overall quality of the presentation of our work.

The manuscript was deeply restructured and revised to address all suggestions/corrections of the three Reviewers and several modifications were included.

In particular, according to the Reviewers suggestions (see specific comments; HESSD Interactive Discussion), the revised manuscript includes: 1) a more detailed description of the state of art and discussion of previous works on the topic of river discharge uncertainty; 2) the introduction of a simple model for the error structure of the rating curve method and a completely new analysis on the dependence of the error on the

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magnitude of the river discharge; 3) additional numerical experiments aimed at evaluating interpolation and extrapolation errors obtained by using a power function as rating curve; 4) a new discussion section, which describes the assumptions made and their effects on the results; 5) a more clear indication of how the results of our study can be used by hydrological modellers; 6) a revision of 7 out of 8 figures and new tables and diagrams. Moreover English grammar was improved according to Reviewers suggestions.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 6, 39, 2009.

## HESSD

6, S651–S652, 2009

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