Hydrol. Earth Syst. Sci. Discuss., 9, C5109-C5111, 2012

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Interactive Comment

Interactive comment on "Gradually-varied open-channel flow profiles normalized by critical depth and analytically solved by using Gaussian hypergeometric functions" by C. D. Jan and C. L. Chen

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Title: Gradually-varied open-channel flow profiles normalized by critical depth and analytically solved by using Gaussian hypergeometric functions By: C.D. Jan and C.L. Chen MS No.: hess-2012-395 Submitted to: Hydrology and Earth System Sciences (HESS) My comments are as follows: 1. Notations: The authors have used the notation h for depth of flow, whereas the standard notation for flow depth is y. Thus, the notations h, hc and hn should be changed to y, yc and yn respectively. 2. All the



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of the following aspects: 1. Does the paper address relevant scientific questions within the scope of HESS? No. 2. Does the paper present novel concepts, ideas, tools, or data? No. 3.Are substantial conclusions reached? No. 4.Are the scientific methods and assumptions valid and clearly outlined? No. 5. Are the results sufficient to support the interpretations and conclusions? Yes. 6.Is the description of experiments and calculations sufficiently complete and precise to allow their reproduction by fellow scientists (traceability of results)? No. 7.Do the authors give proper credit to related work and clearly indicate their own new/original contribution? Not applicable. 8.Does the title clearly reflect the contents of the paper? Yes. 9. Does the abstract provide a concise and complete summary? Yes. 10.Is the overall presentation well structured and clear? Yes. 11.Is the language fluent and precise? Yes. 12.Are mathematical formulae, symbols, abbreviations, and units correctly defined and used? No. 13.Should any parts of the paper (text, formulae, figures, tables) be clarified, reduced, combined, or eliminated? Not applicable. 14. Are the number and quality of references appropriate? Yes. 15. Is the amount and quality of supplementary material appropriate? Not applicable. Peer-Review Completion (HESS) At the end of the Interactive Public Discussion, the authors may make their final response and submit a revised manuscript. Based on the Referee Comments, other relevant comments, and the authors' response in the public discussion, the revised manuscript is re-evaluated and rated by the editor. If rated 1-2 (excellent-good) in all of the principal criteria and specific aspects listed above, it will normally be accepted for publication in HESS. Additional advice from the referees in the evaluation and rating of the revised manuscript will be requested by the editor if the public discussion in HESSD is not sufficiently conclusive.

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