

Interactive comment on “Exploring the physical controls of regional patterns of flow duration curves – Part 4: A synthesis of empirical analysis, process modeling and catchment classification” by M. Yaeger et al.

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I enjoyed reading the synthesis manuscript of a 4-pronged study of flow duration curves (FDC). I believe that this is a fundamental piece of the picture and I strongly support the need for a synthesis paper for such a comprehensive and broad study on FDCs. In my opinion the authors were successful in writing a self-standing paper and in presenting the reasons for existence of the fourth part. Nevertheless, I also agree with the reviewers when they state that this fourth part presents some weak points and is still

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immature (see e.g. RC C3169).

Both Reviewers comments positively on the manuscript, raising some interesting and sensible comments that I am sure will become useful while revising the manuscript. These points deal with the paper clarity, but also with the framework of the analyses presented in the study, therefore they require major revisions to be adequately addressed. It is also my opinion as the handling Editor, that the revision of this manuscript needs to be based upon the final version of parts 1, 2 and 3, being this manuscript the synthesis of the mentioned three studies.

Therefore, I warmly recommend the authors to reply to reviewers' comments promptly, as required by the scope of HESS open review system, but to wait until the revision process of the previous three parts has been finalized before submitting the revised version of part-4.

With warm regards,

Attilio Castellarin

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