

Interactive comment on “Multivariate design via Copulas” by G. Salvadori et al.

G. Salvadori et al.

gianfausto.salvadori@unisalento.it

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The Authors thank Dr. Vandenberghe for his comments.

1. We definitely agree with the remark “The issue of selecting one multivariate design event out of a collection of events which all share the same return period is in fact a challenging one and should clearly be inspired by the application.” This point is fundamental, and will be stressed in the revised version of the paper.
2. The following remark/suggestion is also important: “Besides selecting just one multivariate design event, the methodology also allows for a more “ensemble” based approach of design by selecting several events with the same return period. In this way, it would be possible to assess to some extent the uncertainty of

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a specific design. It would be interesting to see a little discussion on this issue in the paper as well.”

This interesting point has been discussed both during the S.T.A.H.Y. Short Course “Copula Function: Theory and Practice” held last July and the “Water Session” at the 58th World Statistics Congress of the International Statistical Institute held last August. The issue is not a simple one, and in the revised version of the paper we shall discuss it in details, as well as the related remarks/suggestions received.

3. In the revised version of the manuscript we will change the Conclusions underlying/clarifying what the Authors did in the paper, and possible further developments.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 5523, 2011.

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