

## **Authors' supplement to response at comments from Referees: references.**

Following the general comment and suggestions from Referee #1, involving also the final remark of Referee #2, and comment 5) from Referee # 3, asking for more insights about the implications of this work within the general framework of real data analysis, we have introduced in the revised manuscript a number of references hereafter reported with indication of the position in the revised manuscript.

### **Section 1 Introduction, see response to 1st comment from Referee #1:**

**Beven, K.:** Facets of uncertainty: Epistemic uncertainty, non-stationarity, likelihood, hypothesis testing, and communication, *Hydrol. Sci. J.*, doi:10.1080/02626667.2015.1031761, 2016.

**Cohen, J.:** The earth is round ( $p < .05$ ), *American Psychol.*, 49, 997–1003, 1994.

**Milly, P. C. D.,** Betancourt, J., Falkenmark, M., Hirsch, R. M., Kundzewicz, Z. W., Lettenmaier, D. P., Stouffer, R. J., Dettinger, M. D. and Krysanova, V.: On Critiques of “stationarity is Dead: Whither Water Management?” *Water Resour. Res.*, doi:10.1002/2015WR017408, 2015.

**Vogel, R. M.,** Rosner, A. and Kirshen, P. H.: Brief communication: Likelihood of societal preparedness for global change: Trend detection, *Nat. Hazards Earth Syst. Sci.*, doi:10.5194/nhess-13-1773-2013, 2013.

### **Section 2.4 The GEV parent distribution, see response to 1st comment from Referee #1:**

**Muraleedharan, G.,** Guedes Soares, C. and Lucas, C.: Characteristic and moment generating functions of generalised extreme value distribution (GEV), in *Sea Level Rise, Coastal Engineering, Shorelines and Tides.*, 2011.

### **Section 4 Conclusions, see response to 2nd comment from Referee #1 and final remark from Referee #2:**

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**Gioia, A.,** Iacobellis, V., Manfreda, S. and Fiorentino, M.: Runoff thresholds in derived flood frequency distributions, *Hydrol. Earth Syst. Sci.*, doi:10.5194/hess-12-1295-2008, 2008.

**Iacobellis, V.,** Gioia, A., Manfreda, S. and Fiorentino, M.: Flood quantiles estimation based on theoretically derived distributions: Regional analysis in Southern Italy, *Nat. Hazards Earth Syst. Sci.*, doi:10.5194/nhess-11-673-2011, 2011.

**Madsen, H.,** Rasmussen, P. and Rosbjerg, D.: Comparison of annual maximum series and partial duration series for modelling extreme hydrological events: 1. At sit modelling, *Water Res. Res.*, 1997.

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**Rosbjerg, D.,** Blöschl, G., Burn, D., Castellarin, A., Croke, B., Di Baldassarre, G., V. Iacobellis, T. R. Kjeldsen, G. Kuczera, R. Merz, A. Montanari, D. Morris, T. B. M. J. Ouarda, L. Ren, M. Rogger, J. L. Salinas, E. Toth, and Viglione, A.: Prediction of floods in ungauged basins. In G. Blöschl, M. Sivapalan, T. Wagener, A. Viglione, & H. Savenije (Eds.), *Runoff Prediction in Ungauged Basins: Synthesis across Processes, Places and Scales* (pp. 189-226). Cambridge: Cambridge University Press. doi:10.1017/CBO9781139235761.012, 2013.

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**Sivapalan, M.**, Prediction in Ungauged Basins: A Grand Challenge for Theoretical Hydrology, *Hydrol. Process.* 17, 3163–3170, 2003.

**Todorovic, P.** and Zelenhasic, E.: A Stochastic Model for Flood Analysis, *Water Resour. Res.*, doi:10.1029/WR006i006p01641, 1970.

**Section 4 Conclusions, see response to 2nd comment from Referee #1 and comment 5) from Referee #3:**

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