

Nat. Hazards Earth Syst. Sci. Discuss., community comment CC1  
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## Comment on nhess-2020-416

Francesco Serinaldi

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Community comment on "Evaluating Spatiotemporal Patterns and Trends of Drought in Japan Associated with Global Climatic Drivers" by Ke Shi et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2020-416-CC1>, 2021

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The Authors may be interested in the paper below, showing that TFPW-MK test used in this study suffers from mathematical inconsistencies that affect its effective significance, and make results and their interpretation generally incorrect.

Serinaldi F, Kilsby CG. . *Stochastic Environmental Research and Risk Assessment* 2016, **30**(2), 763-777.

The Authors may also be interested in the discussion reported in

Serinaldi F, Kilsby CG, Lombardo F. . *Advances in Water Resources* 2018, **111**, 132-155.

and references therein.

Sincerely,

Francesco Serinaldi