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Hydrology and Earth System Sciences
Discussions

# *Interactive comment on* "Non-stationary Extreme Value Analysis: a simplified approach for Earth science applications" *by* Lorenzo Mentaschi et al.

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First of all we would like thank the editor for his interest in our work, and reviewer 1 for his time spent reading carefully the paper, and for the comments and the suggestions to improve the quality of the work. Follows a item-by-item reply to the reviewer comments.

reviewer: Page 4 Line 6: MLE is already defined in page 2

author: The second definition has been removed

reviewer: Page6 line 23: What is : sn (t) probably you mean std (t)

author: Corrected as indicated by the reviewer.

reviewer: Page 8 lines 15-25: If I am not mistaken the authors describe the methodology of calculating the seasonal anomalies, i.e. the deviations of the monthly data from



a given climatology. If this is the case please state, on the contrary please indicate the differences and the error differences with e standard methodology. The inclusion of the equations is not necessary since an open source code is available but I agree that may help in the implementation.

author: This is what we mean with formula 21. Thanks to the reviewer for suggesting a clearer explanation of the meaning of the formula.

reviewer: Figure 1: In the season variability time window the 'sn' is misplaced.

author: Corrected as indicated by the reviewer.

reviewer: Page 12 line 24: Transformation 1. Do you mean Transformation using Eq (1)?

author: Yes. Changed with "transformation given by Eq(1)".

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