Interactive comment on “Bivariate return periods of temperature and precipitation explain a large fraction of European crop yields” by Jakob Zscheischler et al.

Jakob Zscheischler et al.

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Reviewer: This is an interesting manuscript, and outlines a novel application of multivariate return periods. In my opinion it deserves publication: it is clear, well written, and the mathematical tools used are well referenced.

Thank you for this positive evaluation.

Reviewer: I only have two minor remarks: 1- There are two typos on page 5, line 10: it is Pr(X<x), not F(X<x), and similarly for Y.

Thanks, this will be corrected in the revised version.

Reviewer: 2- On page 3, lines 9-13, the Authors should add that the concept of “critical regions” has recently been well mathematically formalized in the paper mentioned below, via the notions of Hazard Scenarios and Upper Sets (which provide a consistent mathematical framework): such a piece of information may be useful for the interested readers.


Thank you for this suggestion. We will use this reference to better motivate the use of “critical regions”.