

Interactive comment on “Drought lacunarity around the world and its classification” by Robert Monjo et al.

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Title: Drought lacunarity around the world and its classification distribution patterns, trends, and return level estimates (by Monjo et al.)

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In the manuscript, authors have climatically classified the drought 5 duration around the world according to their similarity to the voids of the Cantor set. Dryness time struc-

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ture can be concisely measured by the n-index (from the regular/irregular alternation of dry/wet spells), which is closely related to the Gini index and to a Cantor-based exponent. The paper is interesting. To my thought it can be published after some “major revision”, corrections and contributions as given in the following.

Abstract:

The first sentence can be written more literally because it does not feel good. In the “Abstract”, the authors were supposed to give a few main conclusions. 1. Introduction The lacunarity pertains to both gaps and heterogeneity of the attractor the related dynamical system. The term of “lacunarity” should be explained in the "Introduction" section with examples from the literature. It also needs to be explained how it is associated with drought. Because drought is not only related to a dynamic system (time interval or spell), but to the interaction of many meteorological variables

2. Methods

This section with its subsections should be rewritten in a way that is understandable to an average reader.

1. Results

This section can be written much more appropriate. Maybe a few minor corrections can be added. For example, hydro-climatological interpretations were expected instead of statistical interpretations. This is not a statistical study. In that case, it would be much more meaningful if the hydrological point of view came to the forefront. In addition, the scope of this journal allows the subject of this work.

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