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Comment

Interactive comment on “Characterizing configurations of fire ignition points through spatiotemporal point processes” by C. Comas et al.

Anonymous Referee #3

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This manuscript aims to analyse the spatiotemporal configuration of fire ignitions in a small area of NW Spain and to test for spatiotemporal interaction. In general the manuscript is well written and presented. However, I do not consider that the manuscript represents a substantial contribution to the understanding of fire ignitions. There are many papers on spatiotemporal patterns of fire ignitions, many of which are not cited, and the current manuscript does not bring substantial novelty. I have two additional major comments. The first comment is related to the way the authors present their work, which particularly in sections 2.3 and 3 is not very appealing for readers that do not dominate mathematics and Rippley's K function. I think this could be im-

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proved (for example the authors could avoid using the K equation so many times in the Results and in Figures 3-5, and instead talk about it in a more comprehensive/intuitive way). The second comment is related to the study area and sample size. The authors selected a study area in NW Spain with 30 x 30 km. In my opinion this is a small area for this type of study, and in addition the fact that only 5 years were studied, is a drawback for the manuscript. This was somewhat recognized by the authors (page 2902, lines 15-16 and lines 22-25), and probably they could have made an additional effort to minimize this drawback. Additionally, and considering the conclusions (Page 2903), I think it would be particularly interesting to try to show that the statement in lines 9-10 is true. One can ask if the results suggesting this are based on sufficient robust datasets, and I am not convinced.

Following I include a few specific comments:

Page 2895, lines 24-25 and Figure 1C: It would be interesting to show how fire ignitions are distributed along seasons; the authors could present a graph with ignition frequency in each season, to clearly show how prevalent are fire ignitions in the summer months.

Page 2901, lines 4-5: I guess that many readers will not be familiar with “envelope values”.

Figure 3: Please include more comprehensive legend; for example what means the “v” in the x-axis?

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