

Review of the revised version of nhess-2023-211

On the potential of using smartphone sensors for wildfire hazard estimation through Citizen Science

Summary: The authors have thoroughly responded to the concerns that I raised on the original version of the manuscript. I find the responses also valid and to the point. However, I find at this moment only the reviewers benefit from the reflections provided in the responses to the reviewer's remarks, but the readership does not see it. So I recommend to make another revision in which these reflections are entered into the main manuscript. Also I have some additional concerns about the quality of the figures.

Thank you for this important comment. We have added the discussion to the revised manuscript.

Recommendation: revisions needed

Major remarks

1. I find the reflections and answers to my raised concerns as provided in the rebuttal very appropriate and valid. However, I find these reflections need to be transferred to the main manuscript. Indicating the strengths and weaknesses or open issues is not a weakness to the paper, but helps to put the results in context and also to formulate a research agenda for the community. Especially the answers to the concerns 2a-2d are also useful for the readership of the paper, so please include these reflections in the (discussion section of the) paper.

Discussion added to the revised paper.

2. Quality of the figures. I had a special look at the quality of the figures. Since these are the working horses of the paper to convey the message you want to bring forward, they should be of high quality. Here are my concerns:

-Fig 2: Top header can be removed and its information can be transferred to the figure caption. Lines should be thicker and the font size along the axes larger.

Figure revised and improved.

-Fig 3: please label the two panels a and b, adjust the caption accordingly and make sure both panels are referred to in the text. The y axis of panel b (on the right) can start at RH=30% to enhance the difference between the two lines. Why does this plot have a grid, while the panels in Fig 2 do not have it. Please make consistent. Top header can be removed and its information can be transferred to the figure caption.

Changes made to figure and caption.

-Fig 4: Top header can be removed and its information can be transferred to the figure caption. Lines should be thicker and the font size along the axes larger.

Changes made to figure and caption.

-Fig 5: Top header can be removed and its information can be transferred to the figure caption. Lines should be thicker and the font size along the axes larger.

Changes made to figure and caption.

-Fig 6: Top header can be removed and its information can be transferred to the figure caption. Lines should be thicker and the font size along the axes larger.

As above

-Fig 7: Top header can be removed and its information can be transferred to the figure caption. Lines should be thicker and the font size along the axes larger. Y axis can start at RH=30% in both panels.

Changes made

-Fig 8+9: label the panels a-e. The font size on the axes need to be enlarged.

Done

Fig8+9: the paper has quite many figures. Can figure 8 and 9 be combined into one figure? The same holds for Figs 11+12.

Yes, we have combined the figures.

Fig 10 and 13: Top header can be removed and its information can be transferred to the figure caption. Lines should be much thicker and the font size along the axes larger. Figure does not seem to be sharp here.

Figures have been improved.