

Nat. Hazards Earth Syst. Sci. Discuss., referee comment RC1  
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## **Comment on nhess-2022-107**

Anonymous Referee #1

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Referee comment on "Coupling wildfire spread simulations and connectivity analysis for hazard assessment: a case study in Serra da Cabreira, Portugal" by Ana C. L. Sá et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2022-107-RC1>, 2022

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### **Assessment and recommendation**

The manuscript presents a model-based study of the influence of vegetation connectivity on the intensity and spread of wildfires in Portugal. Overall, it is an interesting study that fits within the scope of NHESS. The text is well written, the methods are described in detail, and conclusions are supported from the presented results. I suggest to accept the manuscript for publication, subject to the following minor remarks.

### **Minor comments**

1. Many sentences in the manuscript are very long, which makes them hard to follow. Please, review the entire manuscript text and try to break long sentences into smaller pieces.
2. L132-134: According to the authors, WRF output was provided at 3h intervals and the weather variables used were averaged over the 12-20h time window. How can this affect the credibility of their analysis, particularly with respect to extreme fire weather? Are the authors certain that the 3h WRF output and subsequently the averaging allows for pinpointing extreme fire weather? A comment on that, also within the manuscript, would be highly appreciated.

### **Technical remarks**

- L22: improve --> improving
- L28: increasing in suppression efforts --> increased suppression efforts
- L34: rather than
- L91: remove where (?)
- L130: Weather Research and Forecasting model
- L465: Table C4 --> Table C1
- L466: run --> ran
- L511: This value or These values
- L409: on the landscape
- L418: future instead of next future