

Response to the Editor

Manuscript: "RHITA: a web tool for real-time detection of extreme weather events"

Journal: Natural Hazards and Earth System Sciences (NHESS)

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Dear Prof. Bonaccorso,

We warmly thank you for the positive assessment of our revised manuscript and for the decision to accept it for publication in Natural Hazards and Earth System Sciences, subject to a minor technical correction. We are grateful to you and to the referees for the constructive evaluation of our work throughout the review process.

We have implemented the correction exactly as you suggested. In particular, following your recommendation to refine the sentence written in response to the last comment of Referee #1, we have reformulated it to convey a clearer and more committed statement regarding the planned future work. The change is detailed below.

Editor's comment

"I suggest slightly modifying the sentence in response to the last comment by Referee #1, from: 'A systematic sensitivity analysis, quantifying how plausible changes in the quantile threshold and in the spatial and temporal parameters affect the detected event statistics and the resulting trends, was beyond the scope of this revision and represents a valuable direction for future work to further assess the robustness of the findings.' to: 'A systematic sensitivity analysis, quantifying the effects of plausible variations in the quantile threshold and in the spatial and temporal parameters on the detected event statistics and resulting trends, will be undertaken in future work to assess the robustness of the findings further.'"

Author response

We thank you for this helpful suggestion, which improves both the clarity and the tone of the closing statement. We have adopted the proposed wording verbatim. The revised sentence, now included at the end of the Conclusions section, reads:

"A systematic sensitivity analysis, quantifying the effects of plausible variations in the quantile threshold and in the spatial and temporal parameters on the detected event statistics and resulting trends, will be undertaken in future work to assess the robustness of the findings further."

Additional editorial adjustments

In addition to the requested correction, we have made two minor editorial adjustments to comply with the journal's layout conventions and copyright requirements. First, the "Code and data availability" statement has been moved so that it now appears together with the other end-matter sections (Author contributions, Competing interests, and Acknowledgements), rather than immediately after the Conclusions. Second, we have added a copyright statement ("© The authors.") to the captions of Figures

A1 and A2, which are screenshots of the RHITA web tool. No changes have been made to the scientific content, results, or conclusions of the manuscript.

Together with this letter, we provide the clean revised manuscript incorporating the correction and the above adjustments, as well as a marked-up version in which deleted text is shown struck through in red and newly inserted text is underlined in blue, so that all modifications can be readily identified.

We thank you again for handling our manuscript and for the opportunity to publish our work in NHESS. We look forward to contributing further to the journal in the future.

With our best regards,

Davide Faranda, on behalf of all co-authors

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