

## ***Interactive comment on “Climate risks, digital media, and big data: following communication trails to investigate urban communities’ resilience” by Rosa Vicari et al.***

**Rosa Vicari et al.**

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The authors would like to thank the Reviewer for reviewing our manuscript and for providing the authors with their valuable remarks and recommendations. Furthermore, we are glad to see their recommendation for the publication of our manuscript. We have addressed all issues raised in their critique and we believe that our manuscript is now much stronger after addressing these comments. We hope that the proposed changes will satisfy his requirements. Here is a list of our preliminary responses to their comments:

Reviewer 2: This paper describes a study on the content analysis of the press and

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tweets about floods in France. The topic is relevant to the journal and the study is of interests to international readers. I support its publication subject to the following improvements (mainly clarifications):

1)

R2: The study has used Gargantext and Gephi systems. Please explain why they were chosen? Are there any alternative systems that could also be used?

A: We agree with the Reviewer that this choice should be explained in the manuscript. We chose these two open-source software to facilitate the replicability of the study and because they both present some advantages. Gargantext is a network representation tool that is unique in terms of ergonomics. Indeed, it allows the analysis of text corpora at different levels: a micro level (the selection of key terms in a single document), a meso level (the selection of key terms and creation groups of terms in the table of terms extracted by Gargantext), a macro level (the selection of key terms in the network representation). Furthermore, thanks to the collaboration between the HM&Co laboratory and ISC-PIF we benefited of support from the developers of Gargantext. Concerning Gephi, it is a software that opens GEXF files, the format of the graph files produced by Gargantext. Furthermore, with Gephi it is possible to easily convert GEXF file in two Excel tables with the node degrees and the edge weights.

2)

R2: In “when few documents are deleted from the corpus or few nodes are removed from the network.” Do you mean “a few” instead of “few”?

A: Thank you for pointing at this grammar mistake, we will correct it.

3)

R2: "excluding BTS"? what is “BTS”?

A: We agree with the Reviewer that this term should be explained. BTS (Brevet de

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Technicien Supérieur) is a French diploma of higher education that is obtained after two or three years of studies in a highly specialised field.

4)

R2: In “A corpus of 761 articles was first selected through Europresse archives”, why did you choose Europresse? Any other alternative sources?

A: We agree with the Reviewer that this choice should be explained in the manuscript. Europresse allows the export of press articles in a format that is compatible with Gargantext. Furthermore, Europresse gives access to press sources in different languages, unlike Argus de la Presse (another important press online archive). This characteristic opens the path to future research applied to other countries than French-speaking countries.

5)

R2: “the following criteria: French press articles published from 15/05/2016 to 15/10/2016,” why did you choose the 5 month duration?

A: We carried out the analysis of the press articles on the Seine river flood five months after the flood. Following the Reviewer’s comment, we will add this information in the manuscript.

6)

R2: In Figure 1, any explanations on the no values?

A: We agree with the Reviewer that adding the label “n° of published terms per day” beside the y-axis will facilitate the comprehension of the figure.

7)

R2: In “Table S1: Keywords related to flood resilient solutions”, please explain the keywords in English and elaborate how they were selected (most readers cannot un-

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derstand France, so it is useful to show the flood resilient solutions in English).

A: Following the Reviewer’s comment, we will include an English translation of the selected terms and we will include the following comment: given that the objective of the analysis was to comprehend how Paris resilience is represented by the media, we selected all terms referring to solutions to cope with flood risk. For a better comprehension of the context where these solutions were implemented, we included in the selection the terms referring to Paris infrastructure. Lastly, since another objective of this analysis was to identify opinion makers, we also selected terms referring to stakeholders.

8)

R2: In Figure S2.1, please show both the French and English terms.

A: Following the Reviewer’s comment, we will include an English translation of all the terms in the Figure.

9)

R2: In “The corpus of tweets covering the Seine River flood of June 2016 was extracted through “Twitter Advanced Search” (twitter.com/searchadvanced).” Any alternative sites? Why this?

A: We agree with the Reviewer that this choice should be explained. We will include the following comment: Twitter Advanced Search is a free and ergonomic service provided by Twitter. This online search tool, associated with Data Miner plug-in, allows the extraction of tweets even after their publication and without any rate limit. An example of a different method to extract tweets is Twitter Search API, but in this case it is only possible to gather popular tweets published in the last seven days and there is a rate limit.

10)

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R2: "The selection criteria were a time span (from 28/05/2016 to 2/7/2016)" why is such a duration chosen?

A: We decided to consider the same duration in the analysis of the first and the second press article corpora in order to facilitate a cross comparison between the two case studies. Following the Reviewer's comment, we will add this information in the manuscript.

11)

R2: There are many grammatical errors. Please check through the whole manuscript to remove them (e.g., "it is possible to quickly navigating through"); "This is probably due to the higher newsworthiness that events in the French capital have in comparison to those occurring in the rest of the country." etc. . .).

A: Thank you for pointing at these mistakes, we will check the whole manuscript.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2018-200>, 2018.