

Nat. Hazards Earth Syst. Sci. Discuss., author comment AC1  
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## Reply on RC1

Kang He et al.

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Author comment on "Brief communication: Western Europe flood in 2021: mapping agriculture flood exposure from SAR" by Kang He et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2021-307-AC1>, 2022

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The work presented in this Brief communication includes a concise yet accurate description of the West European flood 2021 and several features on the inundation extent, particularly in agricultural areas. Information that is to date scarcely available. Although it brings limited research novelties, the contribution is timely. Another important point is that it comes with an extensive dataset of satellite derived inundation extent both in georeferences tiff and as images. I'm in favor of publication provided that the following comments are adequately addressed:

**Respond:** Thanks for your time to review the paper. Your comments are constructive and provide ways to improve the quality of the paper.

Figure 1: Please make country borders thicker. Now they are difficult to see

**Respond:** We will increase the line width of country boundaries.

Figure 2: I suggest enlarging the 4 panels on the left and reducing the one on the right. The inundation extent is more informative than the overview map.

**Respond:** Thank you for your suggestion. We will follow your suggestion and enlarge the inundation extent maps for the four case areas on the left panel while reducing the figure size of the overview map on the right.

L 83: I suggest avoiding nested parentheses “))”

**Respond:** We will modify this kind of expression in the revised paper.

L 92: “the Netherlands” I think

**Respond:** We will correct the typo.

L109-110: This is a sentence for an Abstract or Introduction, rather than for Closing remarks

I think that the information in Figure 3 is already included with more details in Figure 4. I suggest deleting Figure 3.

**Respond:** We will rework the start sentence of the closing remarks. You are correct, information in Figure 3 can be obtained from Figure 4, so, we plan to remove Figure 3.