

Editor's Note

Dear Taylor Glen Johnson, Jorge Leandro, and Divine Kwaku Ahadzie,

Thank you very much for providing a revised and updated version of your manuscript.

I am sorry to say that your response to the request for a comparison of your results with past events for validation is not satisfactory. What is meant by the statement "The magnitude and severity of recently observed floods in the region (Ahadzie et al., 2022; Amoako and Boamah, 2015) are well within the ranges presented in this work"?

The magnitude and severity of precipitation amounts or flooded areas? Ranges of impacts?

Looking into the cited papers does not give an understanding. A minimal quantitative statement or specific comparison to previous events can certainly be made.

Please do address this point as a technical correction of your manuscript.

Best regards

Kai Schröter

Author Response

Dear Kai Schröter,

We regret that our previous response did not satisfactorily address the concerns of the reviewer. We have updated the manuscript beginning in Line 487 as follows:

"The near-annual frequency by which flood disasters occurred in recent years (Amoako and Boamah, 2015), provides evidence that the severity of flooding extents and building damages presented in this work are not unprecedented, even in the case of high-probability events. Further, recovery activities like drying of the building components can take months to achieve when specific drying equipment is not available (Ahadzie et al., 2022). This gives us confidence that the intense damages and corresponding lengthy recoveries shown in the results are similar in magnitude to those experienced in reality."

Best regards,

Taylor Glen Johnson, Jorge Leandro, and Divine Kwaku Ahadzie