

We thank the reviewers for the insights they have provided regarding our research paper, “Modelling flood frequency and magnitude in a glacially conditioned, heterogeneous landscape: testing the importance of land cover and land use”.

References to line numbers below are to the corrected manuscript.

### Reviewer #1

#### Major comments:

*“L218-220: It not clear whether "sub-watersheds" and "sub-basin units" refer to the same concept or different concepts.” there is still one (at least) being missed here (lines 195-200)*

All remaining references to “sub-watersheds” has been corrected to read “sub-basins” (L196). Sub-basin only is now used throughout the manuscript.

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#### Minor comments:

*“Concerning the Pearson correlation: .... (2) Does the normality been checked? If not, would using the Spearman correlation be a better option?” the authors did not reply to this question!?”*

Following Tacq (2010), multi-variate tests for normality have not been performed (noted L361-365) since examination of residuals was conducted and is a streamlined way of addressing this issue. The important drainage area variable, however, was tested and transformed for inclusion in the single-variate model. The analysis was repeated using Spearman rank correlations and the results agree with the Pearson correlation tests. The manuscript has been modified to include the results of the Spearman correlation tests. (L335-359)

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#### Throughout:

*“There appear to be a relatively large number of minor mistakes, such as unclear meanings of italics and special font sizes (e.g., L83, L86, L93, L310-312, L365, L366), using abbreviations before their definitions (e.g., L16, L87), mistakes in figures (e.g., the legend of Fig. 2: HYDAT is not a GIS dataset; the y-ticks of Fig. 7 are missing; Dim1 explains 27.7% in L318 but 28% in Fig. 6), and typos and grammatical errors. It may be beneficial to have someone do a thorough proofreading to address these issues.*

*It is suggested that several statements should provide supporting references (e.g., L155, L225 (n/p<40), L469-471).” Hard to check because the corresponding new lines are not indicated by the authors*

All minor editorial corrections have been made.

E.g., abbreviations removed (L17, L93); italics and font reformatted (L89, L92, L99, L335-339, L383, L384); Fig. 2 legend revised to georeferenced datasets; Fig. 7 y-ticks inserted; Fig. 7 Dim1 to 28.0%; supporting references provided (L166, (n/p<40) L177, Table 5 results provided L390).

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