Dear Editor,

Based on the comments of two reviewers, we have made significant modifications to this study, mainly to extend the original simulation of GLOF propagation downstream based on the hypothetical dam failure to a process chain simulation of GLOFs triggered by material movements. Three model were used to simulated the GLOFs process chain, RAMMS model was used for simulation of potential mass movement (Christen et al., 2010), BASEMENT model was used to simulate the displacement wave in the lake, Heller-Hager model was used as a calibration for BASEMENT's results, and BASEMENT model was also adopted to simulate the dynamic breaching process of moraine dam, the propagation of flood wave and the inundation in downstream. We described the details of the GLOF process chain's simulation in the methodological section of the manuscript. Since this manuscript has changed very dramatically from the previous version, the version we uploaded in revision mode using Word software shows our changes in detail, so we do not explain them in detail in this note. Thank you for your guidance and help!

Best wishes!