We thank the reviewer for the useful comments and are very grateful about his positive feedback.

RC: GENERAL COMMENTS Overall well written, sound methodology, and useful results. Language could be improved, generally try to avoid colloquial terms such a "nowadays" and subjective terms such as "unbelievably" and "rather" in a scientific paper.

AC: We will improve the language and correct the subjective and colloquial terms.

RC: SPECIFIC COMMENTS P2, L2: please provide a reference for snow gliding as a modifier of terrain.

AC: We will add the following reference:

Peitzsch, Erich H., Jordy Hendrikx, and Daniel B. Fagre. "Terrain parameters of glide snow avalanches and a simple spatial glide snow avalanche model." *Cold Regions Science and Technology* 120 (2015): 237-250.

RC: TECHNICAL CORRECTIONS P2, L32: typo "amean" P2, L32: typo "rather" P4, L10: reword ". . . aâA Tf are the coefficients that determine the quadratic surface (Evans, * 1980) and are used as a basis for computation of slope and aspect." P7, L7: reword "Experiments, where only very small avalanches occurred due to the direct effect of the explosion, were neglected."

AC: We will correct the typos. We will reword the sentence to: "Very small avalanches that did not show any fracture propagation after the initial explosion were not considered in the analysis.