Responses to Editor:

Title: Snow Particle Motion in Process of Cornice Formation

ID: egusphere-2024-2458

Authors: Hongxiang Yu, Guang Li, Benjamin Walter, Jianping Huang, Ning Huang, and

Michael Lehning

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The comments are in blue. Page and line numbers refer to the revised manuscript

version with changes marked in italic.

Dear authors,

I am pleased to accept your paper for publication in TC.

I just have one final technical query: I may have missed it, but I could not find the definition of times t 1 and t 3 mentioned in line 102 of the revised manuscript.

Best regards, Guillaume Chambon / TC Topical Editor

Response

Dear Editor,

Thank you very much for pointing this out. The t_1 and t_3 refer to the time step in our previous work of Yu et al. (2022b). To avoid any misunderstanding, we have revomed these terms from the manuscript. The sentence has been revised to: "A sequence of the different growth steps is illustrated in Fig. 3(a) of Yu et al. (2022b). Here we only concentrate on the initial stage of snow cornice growth, where particles accumulate at the edge to form a thin slab on the leeward side of the ridge model."

Best regards,

Hongxiang Yu, on behalf of all authors