

Responses to Editor Decision to manuscript TC-2020-294

Dear Editor,

Thank you very much for your valuable comments to improve this manuscript. We responded point by point to each comment as listed below, along with a clear indication of the location of the revision.

If you have any queries, please don't hesitate to contact us at the address below. Looking forward to hearing from you.

Thank you and best regards.

Sincerely,

Dahong Zhang

Email: zhangdh_yx@163.com

Please Notes: Text in BLACK is the editor's comments and our responses are marked in BLUE.

In addition, the notation used to locate the changes first defines the page number, then the line number(s). For example, **P4L15** means that the described modification to the manuscript can be found on the 15th line on the 4th page in the track-changes file.

Comments:

L20: were more superior => were superior

Response: It has been modified. (P1L20)

L20: provided => provides

Response: It has been modified. (P1L20)

L24: Glacier is => Glaciers are

Response: It has been modified. (P2L24)

L35: glacier centerline => the glacier centerline

Response: It has been modified. (P2L35)

L37: one-dimensional glacier model => one-dimensional glacier models

Response: It has been modified. (P2L37)

L103: was given => is given

Response: It has been modified. (P5L103)

L181: simple glacier => simple glaciers

Response: It has been modified. **(P11L181)**

L181: compound glacier => compound glaciers

Response: It has been modified. **(P11L181)**

In addition, we found and then changed two mistakes: (i) the wrong Eq.1 has been corrected **(P5L104)** and (ii) the default value of P_9 in Table 1 was not up-to-date and has been updated **(P6L108)**.