Dear reviewer,

We thank you for handling our manuscript [tc-2017-264], and thank you very much for your valuable and constructive comments and suggestions. Following those comments and suggestions, we have carefully revised the manuscript; and we are pleased to submit the revised manuscript for potential publication in The Cryosphere. In this revised manuscript, we have made the following major changes.

1. We re-organized all the figures by only keep some significant figures in main text and putting other non-essential figures into supplementary materials.

2. We enhanced the writing by ensuring that each paragraph has a topic sentence, and the flow of narratives progresses naturally. We also had the entire manuscript checked for grammatical errors by a native English speaker. We have also addressed all the other questions and comments raised by the other reviewer. Detailed responses to each question and comment can be found in the responses to reviewer comments (see supplement files).

We hope this revised manuscript will satisfy you.

Thank you again for your time and efforts on our manuscript. We look forward to hearing from you.

Yours sincerely,

Hanbo Yun

Please also note the supplement to this comment:
https://www.the-cryosphere-discuss.net/tc-2017-264/tc-2017-264-AC2-supplement.zip