

Dear Dr. Poulet,

Thank you for going through the paper for technical and grammatical corrections. I believe all changes have been made. The only issue is for the GSC contribution number

Please see all changes in **Red** below your comments.

Regards,

Eric de Kemp

Dear Dr de Kemp,

Thank you very much for the extensive modifications of the manuscript (including reorganisation of the abstract, introduction, as well as new figure) which address all comments from the reviewers. As everyone had noted previously, this paper is a valuable contribution and you have now successfully broadened its potential audience with clear explanations for non-experts in the field. I also agree with your choice of leaving some points out of this work, like the “knowledge vs data” issue.

I am therefore pleased to let you know that the paper will be accepted for publication after some technical corrections in the text. Please check your manuscript for typos and grammatical mistakes (e.g. using tools like [gammarly.com](https://www.gammarly.com)):

- P.1, L.13: “[have] provided” (subject is plural)

Fixed (EdK).

- P.1, L.15 “[has] been trying” (subject is singular. Expressions like “along with” don’t act as coordinating conjunctions so the subject remains “The Geological Survey of Canada” only)

Fixed (EdK).

- P.1, L.16: comma after “however”

Fixed (EdK).

- P.1, L.17: “involve” (subject is plural)

If subject is plural should verb not conjugate to a plural as well “involves”?

- P.1, L.17 “develop[ing] of surface components”

Fixed (EdK) but sounds weird. Feels like “of” should not be there?

- P.1, L.20: rephrase “to develop reasonable starting framework geological models” if possible to explicit the link between “starting”, “framework” and “geological models” (better explained in your introduction)

Slight nuance changed to “develop geologically reasonable starting framework models”.

- P.2, L.20: “explore[r]s”

Fixed (EdK).

- P.3, L.9: “bias for”, check use of transitive verb “to bias” (you might be right, but given the typos above I’m pointing this one for checking, being myself a non-native English speaker...)

Changed to “...tend to be biased towards these...”.

- P.8, L.8: “the focus [is]”

Yes, corrected ... “The focus is on visualizing and modelling...”.

- Acknowledgements: “NRCan Contribution Number [xxx]”

May need to be updated at galley proof stage (EdK).

Best regards,

Thomas Poulet.