

Editor report

Dear Author,

Thank you for your updated manuscript and reply to referee 2's comment, which I find convincing. I just have the following very minor suggestions:

- 5 - P1, L6: I would replace "surface models' integrations" by "surface model integrations"
- P1, L17: I would remove the comma in "... surface model, involves ..."
- P2, L20: I would change "dependent" for "depending"
- P2, L21: I would remove the comma in "... in this paper, is a simple ..."
- P9, L17: I would remove the comma in "... used above, only applies ..."
- 10 - P9, L18: please change "... there may a profile ..." for "... there may be a profile ..."

With best regards, Sophie Valcke, topical editor

Author's response to editor

We thank the editor for her positive response and for the suggestions for correction. All the suggested corrections have been made in the revised manuscript.

15 The following additional changes were made:

- The new affiliation of the second author has been added.
- The project support of the 4th author is mentioned now in the Acknowledgements.