

Revision of
‘Intermediate-complexity Parameterisation of
Blowing Snow in the ICOLMDZ AGCM:
development and first applications in Antarctica’

Etienne Vignon, Nicolas Chiabrando et al.

October 31, 2025

This document contains the response to a review of ‘Intermediate-complexity Parameterisation of Blowing Snow in the ICOLMDZ AGCM: development and first applications in Antarctica’ submitted to EGUSPHERE for possible publication in Geoscientific Model Development. Comments from the Editor are in black and answers are in blue. Paragraphs that have been added or modified during the revision process are copied in purple.

1 Comment from Juan A. Añel, Executive Editor

Dear authors,

Unfortunately, after checking your manuscript, it has come to our attention that it does not comply with our “Code and Data Policy”.

https://www.geoscientific-model-development.net/policies/code_and_data_policy.html

You have archived your code on servers not suitable for scientific publication (e.g., a svn in jussieu.fr and GitLab sites). You must store all the assets necessary to replicate your manuscript in a suitable repository, from the ones listed in our policy. Also, you have not published the output data from your simulations, and you must do it. Therefore, the current situation with your manuscript is irregular.

Please, publish your code and data in one of the appropriate repositories and reply to this comment with the relevant information (link and a permanent identifier for it (e.g. DOI)) as soon as possible, as we can not accept manuscripts in Discussions that do not comply with our policy.

Also, remember to include a modified Code and Data Availability sections in a potentially reviewed manuscript, containing the information of the new repositories.

I must note that if you do not fix this problem, we can not continue with the peer-review process or accept your manuscript for publication in our journal.

Dear Executive Editor, thank you for raising this issue of non-compliance with the journal policy regarding the storage and share of our code and simulation materials. The exact code version and input files used to run the simulations are now shared on zenodo along with the simulation output and codes to reproduce the figures (10.5281/zenodo.17493828). The Code and Data availability section has been rewritten as follows:

The current version of LMDZ and DYNAMICO are available from the project websites <http://www.lmd.jussieu.fr/~pub> and <https://gitlab.in2p3.fr/ipsl/projets/dynamico/dynamico> under CeCILL licence. The exact version of the model used to produce the results is archived on repository under DOI along with input data and scripts to run the model and produce the plots for all the simulations presented in this paper [1]. Boundary condition files for the limited-area simulations have been built using the data-rigueur software, freely distributed at this site: <https://gitlab.in2p3.fr/ipsl/projets/awaca/models/data-rigueur>. The scripts used for the SMB analysis and evaluation using SMB observational data are distributed here: <https://gitlab.in2p3.fr/ipsl/projets/awaca/modelobs/smb-transects-antarctica-git/>.

References

- [1] Etienne VIGNON. *Material to reproduce the results of ICOLMDZ simulations with blowing snow, for the revision of Vignon et al. 2025*. Zenodo, Oct. 2025. DOI: 10.5281/zenodo.17493828. URL: <https://doi.org/10.5281/zenodo.17493828>.