

Geosci. Model Dev. Discuss., author comment AC1
<https://doi.org/10.5194/gmd-2021-333-AC1>, 2022
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Reply on CEC1

Sujeong Lim et al.

Author comment on "Optimization of snow-related parameters in the Noah land surface model (v3.4.1) using a micro-genetic algorithm (v1.7a)" by Sujeong Lim et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2021-333-AC1>, 2022

Dear Chief Editor,

We appreciate your comments. We have revised the Code and Data Availability section following your suggestion.

As for the revised Code and Data Availability, please find the supplement file.

The exact versions of both the Noah Land Surface Model (Noah LSM) and the genetic algorithm (GA) codes, including the DOI numbers, are available at the Zenodo (<https://doi.org/10.5281/zenodo.5777821>). This repository also includes the input and output files of the Noah LSM and the GA along with the scripts to plot the same figures as shown in the manuscript.

Regarding the license issue, the GA mentioned "copyright" in the code, saying, "Copyright David L. Carroll; this code may not be reproduced for sale or for use in part of another code for sale without the express written permission of David L. Carroll." Since we use the code for non-commercial purpose (i.e., not "for sale"), we assume that there should be no copyright issue regarding our paper. We hope the repository of code and data above with DOI and license (for files) can help to cover the license issue. A recent article published in GMD by our group also used the Zenode to secure the exact codes and data including DOI (see Park, S. and Park, S. K.: A micro-genetic algorithm (GA v1.7.1a) for combinatorial optimization of physics parameterizations in the Weather Research and Forecasting model (v4.0.3) for quantitative precipitation forecast in Korea, Geosci. Model Dev., 14, 6241–6255, <https://doi.org/10.5194/gmd-14-6241-2021>, 2021.).

Thank you very much.

Sincerely,

Sujeong Lim

Please also note the supplement to this comment:

<https://gmd.copernicus.org/preprints/gmd-2021-333/gmd-2021-333-AC1-supplement.pdf>