

Executive editor's comments are in bold. Modifications done in the new submitted version of the manuscript are in red.

**The link <https://forge.ipsl.jussieu.fr/orchidee/browser/branches/ORCHIDEE-MICT> nominated as the access to the code in the manuscript does not work. It seems to require a login. This needs to be fixed.**

The access of the source code is restricted. A login and password are thus necessary. We modified the "Code availability" section to include this information: "The source code for ORCHIDEE-MICT version 8.4.1 is available online but its access is restricted. Consequently, it is required to communicate to the corresponding author for a username and password. The source code can be found at the following address:

[https://forge.ipsl.jussieu.fr/orchidee/browser/branches/ORCHIDEE-MICT/tags/ORCHIDEE\\_MICT\\_8.4.1](https://forge.ipsl.jussieu.fr/orchidee/browser/branches/ORCHIDEE-MICT/tags/ORCHIDEE_MICT_8.4.1)"

**It is also a bit usual to use an SVN version number to refer to a model version. I would like to suggest that the authors tag the particular revision in SVN and use this tag as a reference instead. Obviously releases of ORCHIDEE have been tagged before although the last release seems to be a few years old. Nevertheless I am strongly encouraging the authors to do this and to change the title accordingly. In order to guarantee persistent access to the release the use of a DOI is strongly encouraged but not enforced.**

We tagged the version of ORCHIDEE-MICT used in this study into ORCHIDEE-MICT v8.4.1. We changed the title accordingly.

**It is also recommended to add a brief statement on license of use.**

We added a new section called "Code license" after the "Code availability" one: "This software is governed by the CeCILL license under French law and abiding by the rules of distribution of free software. You can use, modify and/ or redistribute the software under the terms of the CeCILL license as circulated by CEA, CNRS and INRIA at the following URL: <http://www.cecill.info>."

**If possible we also strongly encourage authors to provide data and scripts as supplements for the manuscript again in order to guarantee persistent access to the information.**

The code is tagged and the running environment is also versioned. All input files are stored on four data repositories that are synchronized every night. The meteorological forcing files are versioned; the CRU-NCEP files are freely available but not the GSWP3 ones. We are working within the IPSL (Institut Pierre Simon Laplace) framework, which is preparing the CMIP6 simulations, so, even if nothing is perfect, we are working with pretty high standards of reproducibility. Input and output files for these simulations amount to several hundred of Gb, so it is quite difficult to provide them. Even a dedicated data publisher, as for example PANGAEA (<https://pangaea.de/>), mentions: 'max. size per file = 100 MB' ([https://wiki.pangaea.de/wiki/Data\\_submission](https://wiki.pangaea.de/wiki/Data_submission)).