

Interactive comment on “Coupling between the JULES land-surface scheme and the CCATT-BRAMS atmospheric chemistry model (JULES-CCATT-BRAMS1.0): applications to numerical weather forecasting and the CO₂ budget in South America” by D. S. Moreira et al.

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Received and published: 8 May 2013

We thank the Editor for their comments, which are addressed below:

- **The guide.pdf available for download is a very nice piece of work. I would like you to upload that as part of the supplementary information in your revision - as an example for others!**

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Thanks. The guide.pdf file will be included as supplementary information.

- **I successfully compiled several libraries, but was unfortunately not able to compile your included version of netcdf, which was a bit of a mystery. Nevertheless I followed through the instructions as far as compiling the model and everything seemed to make sense and be complete. And the error messages from my compiler were making sense too. So I didn't get as far as completing the testcase, unfortunately, but for only a one hour's effort on my part, this is not too bad a result.**

It is indeed quite complex to compile this coupled model version because CCATT-BRAMS needs HDF library and JULES needs netcdf library. For the next version, all the netcdf dependences will be removed having all input to JULES provided by CCATT-BRAMS.

- **The remaining problem is the requirement to email the first author of the paper in order to get the model code. What happens when the author moves to a new job? There needs to be some way of making this version of the code available that is robust to this eventuality**

We agree this might be a problem. In page 475 lines 28-29 we have replaced the phrase “The model JULES-CCATT-BRAMS code package, instructions to compile and test cases are available upon request to the 1st author.” by “Instructions to compile, execute, test case and how to run the JULES-CCATT-BRAMS model can be found in the supplementary material. The code package and initial conditions for the test case can be obtained via BRAMS group at CPTEC/INPE (brams@cptec.inpe.br). However, JULES sub-model can be used only for research purposes (non-commercial use) and signing the JULES license agreement is mandatory (see: <https://jules.jchmr.org/software-and-documentation>).”

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- **I wonder if perhaps the JULES people might include a link to this GMD paper on their website and host this version of code and make it available (it's not a very big download)**

It is a good idea, but we do not know if the JULES people agree with this proposition. We will ask them.