Hydrology and Earth System Sciences Discussions

Interactive comment on "Discharge simulation in the sub-basins of the Amazon using ORCHIDEE forced by new datasets" *by* M. Guimberteau et al.

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First of all, we gratefully acknowledge the referee for his suggestions for English improvements.

* Referee's general comment: It will be interesting to see whether such extensions, if implemented, significantly improve the ORCHIDEE model performance. The reader would also like to know rather more about what the model will be used for, and by whom, and at what stage the model will finally be deemed fit for purpose.

- Answer: In the continuation of this work, the configuration ORCH4 of the model has been used to study the effect of climate change on amazonian streamflow and a pub-

lication is in preparation on this topic. ORCHIDEE is currently used for the EU-FP7 AMAZALERT (Raising the alert about critical feedbacks between climate and long-term land use change in the Amazon) project. In that mark, a comparison of simulated evaporation with various estimated dataset is performed. Moreover, the deforestation and the carbon cycle will be taken into account in this project.

* Referee's specific comments:

- Answer: Answers are given in a file of "supplement".

Please also note the supplement to this comment:
http://www.hydrol-earth-syst-sci-discuss.net/8/C5696/2012/hessd-8-C5696-2012-supplement.pdf

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 11171, 2011.