

## ***Interactive comment on “The Joint UK Land Environment Simulator (JULES), Model description – Part 1: Energy and water fluxes” by M. J. Best et al.***

**J. C. Hargreaves (Editor)**

jules@jamstec.go.jp

Received and published: 9 June 2011

Dear Authoring Multitude,

Both reviewers suggest minor revisions to the paper, and personally I do not see any particular barrier to publication, although of course the submission would be greatly improved if code and manuals to the model were included as supplementary information.

Referee #2 has not been able to check all the equations, and I see that there are indeed a great many. As this paper has so many authors I have no doubt that you will all carefully cross-check the equations before re-submitting the manuscript, paying particular attention to those equations relating to your particular expertise.

C344

The same referee also states, "This is purely a description paper, containing no scientific finding. However, the paper is quite descriptive overall. Probably such kind of paper is only publishable on Geoscience Model Development."

I am glad to see that the reviewer appreciates the uniqueness of GMD, which was established precisely to document developments in the science of modelling, underpinning so much of modern geoscience. While scientific conclusions about the world are not required for publication in GMD, it is, however, important that the advances in modelling are made obvious in the paper. The model should be set in context: clever modelling tricks should be highlighted; decisions (arbitrary or otherwise) made in the development clearly explained; and comparisons should be made to other similar or earlier models where appropriate and possible. Perhaps once this aspect of the manuscript has been attended to the significance and novelty of the work may become more apparent.

jules

---

Interactive comment on Geosci. Model Dev. Discuss., 4, 595, 2011.