Geoscientific
Model Development
Discussions

Interactive comment on "The Variable Infiltration Capacity Model, Version 5 (VIC-5): Infrastructure improvements for new applications and reproducibility" *by* Joseph J. Hamman et al.

Anonymous Referee #2

This paper presents an overview of the recent changes to the widely-used VIC hydrology model, with a major reworking of its structure. The manuscript is well written and organized, and apart from a few minor issues I think it is in very good shape. The one aspect of the new model that was not described adequately was the extension system, and I would like to see a bit more detail on how the coupling with other models was done. Other minor issues that would need some clarification are outlined below:

* p. 2, l. 16: might want to clarify "coupled" to "two-way coupled". * p. 7, l. 10-11: have there been any tests and evaluation of the vectorization (if any is included) performance? This would be relevant to different types of processors such as the Intel

Xeon Phi ($\sim$60 cores). * p. 7, l. 30: would it have been possible to modify MT-CLIM instead in order to facilitate exact restarts? * p. 8, l. 12: are there any other pre-processing packages provided that can help with preparing e.g. soil information in the new format?