Geoscientific Model Development Discussions

Interactive comment on "mizuRoute version 1: a river network routing tool for a continental domain water resources applications" *by* N. Mizukami et al.

Anonymous Referee #2

This manuscript presents a toolbox-type of open-source package for the runoff routing methods. It is generally well written and easy to follow. But the introduction part could be significantly improved to clearly bring out the new contributions, i.e., whether and how this study has indeed advanced the science or methodology aspects of runoff routing models. The validation does not seem sufficient either due to the lack of comparison against the observations. I suggest the manuscript to be significantly improved before publication is considered. Possible directions to improve include, but not limited to, 1) deeper analysis revealing the advantages of vector-based method, not just on the input data, but theoretical insights; 2) future climate impacts on streamflow variation (e.g., CMIP5 simulations).

Interactive comment on Geosci. Model Dev. Discuss., 8, 9415, 2015.