

Interactive comment on “Projected effects of vegetation feedback on drought characteristics of West Africa using a coupled regional land–vegetation–climate model” by Muhammad Shafqat Mehboob et al.

Anonymous Referee #1

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There are several minor or major concerns for this paper. 1. Only observed precipitation, air temperature and precipitation deficit/surplus were shown in the Figure 1. How reliable are the simulations with and without the dynamic vegetation (DV)? Also, what's the performance of the simulated historical Leaf area index (LAI) by the DV version? 2. LAI has been used as one of the main indicators representing the responses of land surface to regional climate change. For the DV version, what will the plant functional types (PFTs) change with different climate scenarios? How may the regional climate changes be associated with the projected land surface changes including vegetation

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(e.g., PFTs area extent and tree height) induced changes in energy and water fluxes? 3. Were any differences between the DV and SV or between the future and historical periods statistically different? 4. There is no any discussion in this paper. It's needed because people got to know why and how your present work is important and unique, and what the limitations and next steps are.

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