

Interactive comment on “Ecohydrologic controls on vegetation density and evapotranspiration partitioning across the climatic gradients of the central United States” by J. P. Kochendorfer and J. A. Ramírez

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The paper entitled "*Ecohydrologic controls on vegetation density and evapotranspiration partitioning across the climatic gradients of the central United States*" by J. P. Kochendorfer and J. A. Ramírez applies the Statistical-Dynamical Ecohydrology Model (SDEM) over thirty years in a large region of US with significant climatic and vegetation gradients. This paper should be considered the natural continuation of the work entitled "*Modeling the monthly mean soil water balance with a statistical-dynamical ecohydrology model as coupled to a two-component canopy model*" presented in this special

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issue by the same authors.

Both referees have made a constructive review of the manuscript finding this paper interesting and suitable for publication after **Major Revisions**. I would like to remark to comments made by the referee 2 regarding the calibration approach that requires probably to be reconsidered especially for the evapotranspiration parameters.

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