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Interactive comment on "Calibration of a parsimonious distributed ecohydrological daily model in a data scarce basin using exclusively the spatio-temporal variation of NDVI" *by* Guiomar Ruiz-Pérez et al.

S. Gharari (Referee)

shervangharari@yahoo.com

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I have read the manuscript with much interest. I found it very relevant. There are handful of models trying to mimic the vegetation dynamic as well as hydrological fluxes such as transpiration and streamflow with much more complexity. This study is relevant in the sense that it explores the possibility of using simpler models for mimicking vegetation dynamic.

To exploit the opportunity of the online discussion, I would like to ask the authors couple questions. Short answers to these questions will help me better judge the manuscript.

1- Are the model parameters different from cell to cell? If yes, which parameters are identical and which parameters are different?

2- I did not understand how the model calculate the LAI which then is used to calculate the transpiration?

3- Maybe I missed, but what is the resolution of the implemented model?

4- How did the manual calibration help to find the best parameters? How the parameters' ranges have been constrained? In table 1, LUE tree and shrub is out of specified range (Shrub is misspelled).

5- A clearer explanation regarding EOSi would be appreciated. What does different i exactly mean?

6- How would be the model performance with and without calibration on observed satellite data? Any gains or losses there? This would be great to be addressed.

With kind regards

Shervan Gharari

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., doi:10.5194/hess-2016-573, 2016.