

Interactive comment on “Influence of climate variability on water partitioning and effective energy and mass transfer (EEMT) in a semi-arid critical zone” by X. Zapata-Rios et al.

Anonymous Referee #2

Received and published: 16 October 2015

This manuscript presents the detailed analysis of the trends in climate variables which is robust and interesting, and subsequently the trend in EEMT which is also interesting but could be deepened with more process understanding. There is a need to clearly demonstrate what is the innovative scientific understanding on EEMT gained from this site and can be generalized to other regions. For example, the abstract and summary are somehow dominated by the increasing/decreasing trends of climate variables, which seems a bit trivial. More unique insights on EEMT itself and its linkages to the critical zone structure and processes would be very helpful.

Figure 1a is not of good quality so should be improved.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 12, 7933, 2015.

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