

Interactive comment on “A Budyko framework for estimating how spatial heterogeneity and lateral moisture redistribution affect average evapotranspiration rates as seen from the atmosphere” by Elham Rouholahnejad and James W. Kirchner

Elham Rouholahnejad and James W. Kirchner

elham.rouholahnejad@usys.ethz.ch

Received and published: 1 October 2016

General comment

We thank the Referee # 2, Michael Roderick for his comments on the manuscript.

Specific comments

- PET in Budyko framework: In our manuscript we use PET as a generic descriptor

C1

of atmospheric evaporative demand, independent of how it is quantified. However, as Michael Roderick suggests, it is noteworthy to mention that PET could be estimated in many different ways, and to mention that Budyko estimated PET from net radiation.

- Temporal averaging error, Lim and Roderick, 2015, Gerrits et al. 2009: We appreciate Prof. Roderick's mention of these two papers, and it is interesting to see how the same logic holds true using different ET models. We will consider how these points can be incorporated into the text.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., doi:10.5194/hess-2016-424, 2016.

C2