Interactive comment on “A channel transmission losses model for different dryland rivers” by A. C. Costa et al.

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The paper is quite interesting; the literature review is good but it needs further improvement. It is necessary to focus on the problems of different dryland setting and the recent development in remote sensing to provide ranges of the missing data such as precipitation (such as TRMM data), landuse and landcover, drainage networks, etc. However, the authors mentioned the use of satellite images to derive channel length and width at middle of this paper. The developed hydrological model omitted the role of rainfall; even if the discharge is observed at different points on a given reach. Local precipitation on the tributaries between the used locations may alter the flow parameters and therefore the flow discharge change is controlled by all the parameters of the hydrological cycle. It was also mentioned that the total rainfall is in order of 1 m per year, I believe this value is very much high for even a semi-arid catchment. I hope this will be useful to improve this paper.

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