

Interactive comment on “Precipitation in the Amazon and its relationship with moisture transport and tropical Pacific and Atlantic SST from the CMIP5 simulation” by G. Martins et al.

Anonymous Referee #2

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Scientific and writing quality of the manuscript is below average. It does not offer new findings of treatments, and it has some typos and grammatically incorrect sentences.

I find the analysis very elementary and even not useful at times. Lag correlation with SST may not explain biases in Amazon precipitation. Vertical temperature profile over the Amazon basin has different structure than the surrounding oceans due to the monsoon which leads to a different local convective behavior.

Also, the analysis does not touch on energetic controls of precipitation (moist static energy budget), particularly turbulent surface fluxes in the wet and dry seasons. Although

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accurate observations of these important fluxes may not be available, I expected at least a discussion.

Finally, utilizing ERA reanalysis is not favorable because of the many errors and biases the dataset contains.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 12, 671, 2015.

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