Review of *The American Monsoon System in HadGEM3.0 and UKESM1CMIP6 simulations* by Garcia-Franco et a

David K. Adams dave.k.adams@gmail.com

Recommendation: Minor Revision

## **General Comments**

The authors have adequately addressed my concerns with respect to amplifying a bit the general context for these type of model run comparison studies. At this stage, I feel the paper is essentially ready for publication. I have a list of small changes that should be made as well as a new suggested reference which would be good for the discussion on Central Amazon precipitation.

## **Minor Comments**

You say "well represented" numerous times, perhaps you can change the description a bit.

Line 7 I like "notable" better than "noticeable"

Line 13 The precipitation biases over the Amazon and southeastern Brazil are absent... "Removed" sounds like you actively took them out.

Line 20 Rewrite this sentence. It is unclear.

Line 42. I think another good reference for central Amazon rainfall that I forgot to mention in my previous review is Tanaka et al. 2014

Line 44 write "...greatly influence the South American ..."

Line 45 write "...demonstrated by observations...

Line 56 write ... as in previous studies...

Line 60 Another particular relevant article with respect to modeling of the American Monsoons is our recent review (Pascale et al. 2019).

Line 78 Check spelling "characteristics"

Line 109 write "...given their longer period."

Line 113 Define "MOHC"

Line 119 What are "CMIP6 deck experiments"? Baseline experiments/runs?

Line 163 Write "...which has been associated..."

Line 164 Write "In turn, ..."

Line 208 This sounds strange to my ears "The EP ITCZ reaches minimum precipitation"

Line 210 Write "The low-level winds are predominantly easterly" Easterlies is a proper noun typically referring to those climatological winds.

Line 236 Correct "northwest-southeast"

Line 266 Probably better to write "eastern Brazil"

Line 268 Write "are different from the observations."

Line 443 Maybe write "...has greater climate sensitivity..."

Line 448 Correct "entrainment"

## References

Pascale, S., Carvalho, L.M.V., Adams, D.K. *et al.* Current and Future Variations of the Monsoons of the Americas in a Warming Climate. *Curr Clim Change Rep* 5, 125–144 (2019). https://doi.org/10.1007/s40641-019-00135-w

Tanaka, L.M.d.S., Satyamurty, P. and Machado, L.A.T. (2014), Diurnal variation of precipitation in central A mazon B asin. Int. J. Climatol., 34: 3574-3584. doi:10.1002/joc.3929