

***Interactive comment on* “Estimation of water yield in the hydrographic basins of southern Ecuador” by Saula Minga-León et al.**

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The manuscript by Minga-León and coauthors provides an estimation of water production in nine hydrographic basins in southern Ecuador. Without offering a complete review of the article, which would be given during the peer-review process, I was surprised to see that the literature review, especially the one offered in the Introduction, presents references that date back to 2015 at the latest. Apart from Redhead et al (2016) and Li et al. (2018), both referring to the InVEST model, there are not updated citations on tropical, Andean, and Amazonian hydrology that can complement, contextualise, and offer further discussion to enrich this work.

I provide here six relevant articles that the authors could read, include, and use as a

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starting point to strengthen their literature review and scientific content for their study:

- Manz, B., Páez-Bimos, S., Horna, N., Buytaert, W., Ochoa-Tocachi, B. F., Lavado-Casimiro, W., and Willems, B. (2017) Comparative Ground Validation of IMERG and TMPA at Variable Spatio-temporal Scales in the Tropical Andes. *J. Hydrometeorol.*, 18: 2469–2489. doi: 10.1175/JHM-D-16-0277.1

- Ochoa-Tocachi, B. F., W. Buytaert, and B. De Bièvre (2016), Regionalization of land-use impacts on streamflow using a network of paired catchments, *Water Resour. Res.*, 52: 6710–6729. doi: 10.1002/2016WR018596.

- Ochoa-Tocachi, B. F., Buytaert, W., De Bièvre, B., Célleri, R., Crespo, P., Villacís, M., Llerena, C. A., Acosta, L., Villazón, M., Guallpa, M., Gil-Ríos, J., Fuentes, P., Olaya, D., Viñas, P., Rojas, G., and Arias, S. (2016) Impacts of land use on the hydrological response of tropical Andean catchments. *Hydrol. Process.*, 30: 4074–4089. doi: 10.1002/hyp.10980.

- Ochoa-Tocachi, B. F., Buytaert, W., Antiporta, J., Acosta, L., Bardales, J. D., Célleri, R., Crespo, P., Fuentes, P., Gil-Ríos, J., Guallpa, M., Llerena, C., Olaya, D., Pardo, P., Rojas, G., Villacís, M., Villazón, M., Viñas, P., and De Bièvre, B. (2018) High-resolution hydrometeorological data from a network of headwater catchments in the tropical Andes. *Sci. Data*, 5: 180080. doi: 10.1038/sdata.2018.80

- Timbe, E., Feyen, J., Timbe, L., Crespo, P., Célleri, R., Windhorst, D., Frede, H.-G., and Breuer, L. (2017) Multicriteria assessment of water dynamics reveals subcatchment variability in a seemingly homogeneous tropical cloud forest catchment. *Hydrol. Process.*, 31: 1456–1468. doi: 10.1002/hyp.11146

- Zulkafli, Z., Buytaert, W., Manz, B., Véliz Rosas, C., Willems, P., Lavado-Casimiro, W., Guyot, J.-L., and Santini, W. (2016) Projected increases in the annual flood pulse of the Western Amazon. *Environ. Res. Lett.*, 11: 014013. doi: 10.1088/1748-9326/11/1/014013

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2018-529>, 2018.

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