

Interactive comment on “Statistical bias correction for climate change impact on the basin scale precipitation in Sri Lanka, Philippines, Japan and Tunisia” by C. T. Nyunt et al.

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I have reviewed with great interest the paper by Nyunt, et al. I have a short comment on the method the authors used to correct the future climate precipitation (equation 11 on page 8).

$$X'_{Gcm_Fut} = F_{Obs}^{-1}(F_{Gcm_past}(X_{Gcm_Fut})) \text{ —————(11)}$$

According to the equation, the authors fed future precipitation (X_{Gcm_Fut}) into the the CDF fitted using the past GCM precipitation data (F_{Gcm_Past}) to get the cumulative probability. It means, they assumed that the future precipitation follows the same CDF as the past GCM precipitation. In practice, this is not true.

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It is better to clarify why authors assumed the same CDF for the past and the future precipitation.

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