

***Interactive comment on* “Evaluation of global seismicity along Northern and Southern hemispheres” by Olaide Sakiru Hammed et al.**

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Received and published: 26 June 2020

Dear Angeliki K. Adamaki,

As you can see in the attached figure (taken from MS2009) the correction factor that you have used (3.1) gives biased estimates of the b-value (dotted lines). The correction factor proposed by Tinti & Mulargia (3.9, 3.10) should be used (solid line).

You can also read it from the text "From fig. 1a,b, we can see that the estimation b_{TM} (Tinti and Mulargia, 1987) is bias free, also for a small dataset." The conclusion text you referred to is about the general use of correction for grouped data.

Kind regards, Y. Kamer

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2020-128>, 2020.

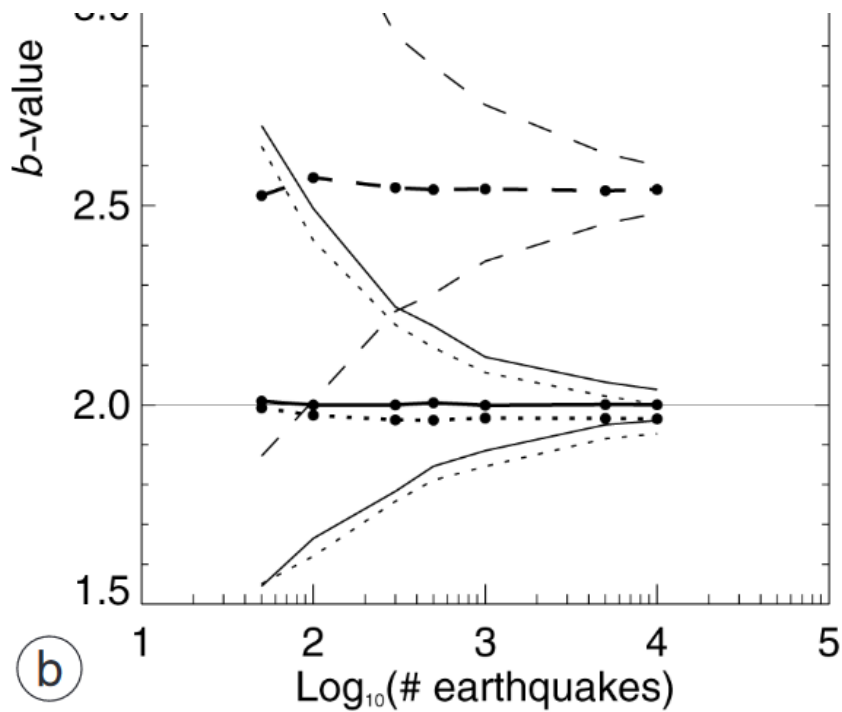
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ed lines), \hat{b} (dotted lines) and \hat{b}_{TM} (thicker solid line)

Fig. 1.

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