

Interactive comment on “Periodic input of dust over the Eastern Carpathians during the Holocene linked with Saharan desertification and human impact” by Jack Longman et al.

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The ms presents a very interesting and complete dataset on Holocene dust reconstruction from East European peat record. The ms is well organized with clear aims. The text is too the point. The approach is quite innovative. See the attached pdf with several remarks and/or suggestions on the text and the figures. For my point of view, two mains points should be completed. First on the methodological approach I suggest to present the calibration between ITRAX and ICP-OES data to better constrain the proposed approach. I will also discuss the potential influence of porosity/humidity changes in the measured peat section on the number of ITRAX counts. Indeed elemental ITRAX data are often normalized, for instance by the total

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number of measured counts in order to take into changes in peat density/porosity but also on surface irregularities. I would explain why this approach is not useful. Second I would complete the text about the relationships between the identified dust events, the wet/dry, cold/warm conditions and the related figures. Hoping the review will be helpful to improve this interesting manuscript. Sincerely, Nathalie Fagel

Please also note the supplement to this comment:

<http://www.clim-past-discuss.net/cp-2017-6/cp-2017-6-RC2-supplement.pdf>

Interactive comment on Clim. Past Discuss., doi:10.5194/cp-2017-6, 2017.

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