

Geochronology Discuss., author comment AC2
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Reply on RC2

Alastair C. Cunningham et al.

Author comment on "Attenuation of beta radiation in granular matrices: implications for trapped-charge dating" by Alastair C. Cunningham et al., Geochronology Discuss., <https://doi.org/10.5194/gchron-2021-17-AC2>, 2021

Many thanks for the review. I think I can accommodate most of the points you raise.

The placement of section 3 is not so easy... the section is necessary but boring, so it looks out-of-place wherever it is put. When designing the structure of the MS, our main concern was in keeping the flow of the argument progressing in a logical fashion. An earlier draft had the phi-values as the second section, as you suggest, but this created an interruption to the reader because at that point it is not clear why phi-values are necessary. We explain phi fully in the model section, so after that the necessity should be obvious.

On the use of language: clearly there has been some confusion on the term 'matrix'; I am not sure this is really justified, because the term is qualified in most cases (bulk matrix, homogenous matrix etc). I will take a close look and clarify where possible. The word 'sediment' was avoided, because the arguments apply to rock as well.