

## ***Interactive comment on “Development of a multi-method chronology spanning the Last Glacial Interval from Orakei maar lake, Auckland, New Zealand” by Leonie Peti et al.***

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The paper by Peti et al. integrates several dating methods into a comprehensive age-depth model. Such kind of multi-proxy approach is certainly the best (only) way to obtain reliable chronologies of long lacustrine sedimentary sequences (notoriously challenging to date). Aside from an interesting discussion on the proxy' results, the paper will support important paleoclimatological interpretations. The paper is therefore worth to be published in GChron following some revisions (see the annotated manuscript attached). The annotated manuscript is not a “formal and extensive review”, but rather contains comments/questions/suggestions, especially centered on paleomagnetism

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and  $^{10}\text{Be}/^{9}\text{Be}$  geochemistry. I hope these elements will help improving the paper.

Sincerely,

Quentin Simon (CEREGE)

Please also note the supplement to this comment:

<https://gchron.copernicus.org/preprints/gchron-2020-23/gchron-2020-23-SC1-supplement.pdf>

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Interactive comment on Geochronology Discuss., <https://doi.org/10.5194/gchron-2020-23>, 2020.

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