

Earth Syst. Sci. Data Discuss., community comment CC2
<https://doi.org/10.5194/essd-2020-375-CC2>, 2021
© Author(s) 2021. This work is distributed under
the Creative Commons Attribution 4.0 License.



Comment on **essd-2020-375**

Michael H. Weber

Community comment on "The first pan-Alpine surface-gravity database, a modern compilation that crosses frontiers" by Pavol Zahorec et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-375-CC2>, 2021

I would like to congratulate the authors for tackling the long unresolved challenge of a unified "gravity" approach spanning the Alps and their surroundings. Such an approach has been missing for quite some time.

Not being a gravity-person I can not judge fully the novelty in all the processing and corrections applied. Possibly this part could be shortened a bit, to help the general audience to appreciate the work presented. On the other hand, the next generation of geoscientists could use this carefully documented approach to learn how it should be done.

The long-lasting impact of this paper is clearly that provides a long-lasting basis for ongoing and future interdisciplinary studies and the interpretation and the dynamics of the Alps especially. The data base created by this huge team of authors, now available to the whole geo-community, cannot be underestimated in its value; this is thus clearly something new.

For this reason, I strongly support the opinion that this amazing piece of work is published asap.