

## ***Interactive comment on “Isoscape of precipitation amount-weighted annual mean tritium ( $^3\text{H}$ ) activity from 1976 to 2017 for the Adriatic-Pannonian region” by Zoltán Kern et al.***

### **Anonymous Referee #2**

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The authors have found a good way to fill in gaps in the existing information by creating a statistical model which uses the  $^3\text{H}$  data collected from Austria and the northern Balkans. The manuscript presents a time-based  $^3\text{H}$  precipitation isoscape of North-Balkan. The text is well-structured and easy to read. However, I do have some comments.

Key words: why do the authors only mention Slovenia and Hungary and not the northern Balkans as the title suggests?

The purpose of this work is not only to create a database, but also to analyse and draw conclusions. I would recommend to slightly expand the purpose in the introduction.

C1

The authors need to explain why they have used the  $1 \times 1$  km grids. This seems an unreasonable accuracy compared to the size of the study area.

"..the largest shallow freshwater lake in Central Europe". Wouldn't the 'largest lake in Central Europe' already be enough?

It is hard to follow the isoscape in Figure 3: I would recommend to use red-blue instead of the current green-blue combination to improve the contrast.

The used data base (<https://doi.pangaea.de/10.1594/PANGAEA.896938>) is presented in a less used format (my computer required additional software to read it). Wouldn't it be possible to present it in the HTML format to make it more usable? An example: <https://doi.pangaea.de/10.1594/PANGAEA.911474?format=html#download>.

There seems to be some confusion with the parentheses. I've highlighted these in the attached file.

Please also note the supplement to this comment:

<https://www.earth-syst-sci-data-discuss.net/essd-2019-244/essd-2019-244-RC2-supplement.pdf>

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Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2019-244>, 2020.

C2