

## ***Interactive comment on “Atmospheric controls on hydrogen and oxygen isotope composition of meteoric and surface waters in Patagonia” by Christoph Mayr et al.***

### **Anonymous Referee #2**

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This paper evaluates the stable isotope compositions of precipitation, lentic waters, and lotic waters in that area to characterize and understand isotope fractionation processes associated with orographic rainout, moisture recycling and moisture sources. I think this paper is relevant since it studies isotopes and the relevant literature cited, however it requires major revisions. The manuscript is interesting but written is poor. It is difficult to catch the authors' messages to readers. The results are original and represent an important contribution to the understanding of the controls on hydrogen and oxygen isotope composition. However, my main concern is that the problem statement is not clearly defined and that the field description is not sufficient as it is. Specific comments: Abstract: This is mostly composed of the Introduction and Material and methods. So,

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I do not think the abstract is attractive. Introduction: Describe more paper about the stable isotope compositions! which problems? why is this study important? Material and methods: Detail more the monitoring and describe the collection methodology. I think the paper would be better if the authors combined the results and discussion.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2018-431>, 2018.

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