

Interactive comment on “Relationship between climate, environment, and anthropogenic activities in coastal North China recorded by speleothem $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ ratios in the last 1 ka” by Qing Wang et al.

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Author's final response - “Relationship between climate, environment, and anthropogenic activities in coastal North China recorded by speleothem $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ ratios in the last 1 ka”

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Firstly, we would like to thank two anonymous reviewers for their comments and constructive suggestions, which will improve the manuscript, and for recommending this study for publication in Climate of the Past.

According to the comments from the two anonymous reviewers, the main problem of this manuscript is the overlap with the previous paper published in Climate of the Past (Wang et al., 2016, 12, 871-881). In this paper, the stalagmite KY1 was dated by U-Th technique, and discussed the climatic-environmental meanings by $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ ratios. The $\delta^{18}\text{O}$ ratios of the upper part of stalagmite KY1 has been discussed and published in Wang et al., 2016 Clim. Past. As for this problem, we have discussed many times about how to modify this manuscript. We decide to discuss the climatic-environmental meanings of $\delta^{13}\text{C}$ ratios primarily, the $\delta^{18}\text{O}$ ratios are comparison data. This manuscript has been modified. The main modifications are as follows.

1. The abstract and conclusion have been simplified.
2. We will add a picture to show the stalagmite and the sampling positions and adjust the order of all figures.
3. In section 4, we have deleted many discussions of $\delta^{18}\text{O}$ ratios, and only retain the comparison with $\delta^{13}\text{C}$ ratios. We have also deleted the redundant figures.
4. Some of the references have been updated. We are still modifying this manuscript and checking the discussions and results based on the comments from the two anonymous reviewers. We will improve the expressions and consider to find language editing service by professional institution, and make the manuscript much easier to read. The whole manuscript which are modified up to now is in the supplement. Thank you for all the people who are concerned about this manuscript.

Regards, The authors (Qing Wang, Ke Cheng, Zhihui Zheng, Hong Chi, Hongyan Wang)

Please also note the supplement to this comment:
<https://www.clim-past-discuss.net/cp-2017-73-AC3-supplement.pdf>

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