

General comment

Actually, the authors answered all of my questions and took my suggestions into consideration, and rewrote the manuscript where it was recommended or criticized. Only few bad wording (phrases) remained or got into the text. See below. After the correction of these faults, I recommend the publication of the manuscript and the related dataset.

Answer: Dear Dr. István Fórizs, Thanks for your valuable comments and patient work on our manuscript. We have accepted all your suggestions and revised them point-by-point.

Detailed comments

Line 99: “isotope records of thermokarst lakes/ponds and ground ice on the QTP, which are extremely scarce” – In this form the “scarce” refers to the “lakes/ponds and ground ice”. Please, delete “, which are” and then it will refer to the isotope records.

Answer: Thanks. I have improved this sentence according to your suggestion. See the revised words in page 5 line 96-97.

In the “Legend” of Figure 1b “tributary” should be replaced by “tributaries”.

Answer: I have done that.

In the “Legend” of Figure 1a and 1c “Qinghai-Xizang” remained. It should be replaced by “Qinghai-Tibet”.

Answer: Thanks, I have improved the Figure 1.

Line 148: “as much as snow samples” – Bad grammar. Please, correct this form in other places as well.

Answer: I have checked the whole manuscript, and replaced “as much as” into “enough”, and replaced “as many as” in some places into “sufficient”.

Lines 183-184: “the plastic bags were exhausted”. – Do you mean the air was pressed out from the bag? “exhausted” is not a good word here.

Answer: Thanks for your suggestion, I have revised into “...the air was pressed out from the bags and...”. See the revised words in page 9 line 180.

Melted “at room temperature”. The prefix “at” is missing.

Answer: Thanks, I have added it.

Line 200: “Partial of sampled lakes disappeared”. – I recommend “Some of the sampled lakes disappeared”.

Answer: Thanks, I have revised it. See the revised words in page 10 line 196-197.

Line 215: “Typical feature of one spring gushing outs from sand sediment”. – Please, use “out” instead of “outs”.

Answer: Yes, I have revised it.

Line 257: Abbreviations in Equation 1 are not explained.

Answer: I have added the interpretation of the respective abbreviations. R_{sa} is the respective isotope ratio measurement for the samples and R_{st} is the defined isotope ratio of a standard sample. See the revised words in page 15 line 257.

Lines 261-262: “the water sample from one single precipitation event was firstly collected”. – Please, rephrase this sentence. I recommend the following: “the water sample from every single precipitation event was collected separately.”

Answer: Thanks. I have revised this sentence according to your suggestions

Line 270: "beneath water" – beneath water surface.

Answer: I have revised it.

Line 275-276: "calculating the 1-sigma standard deviation of groups of 12 injections and then calculating the average of these standard deviations" – What kind of water was used for this? Measuring distilled water always results better standard deviation than that of natural water sample. The same natural water should be measured several times and then the standard deviation could be calculated. This standard deviation is a lower limit for the uncertainty of the delta values.

Answer: Yes, you are right. The distilled water was prepared to test the stability of the analyzer. See the revised words in page 16 line 274-275.

Line 350: "et al" – etc.

Answer: I have revised it.

Line 360: "majorities of the $\delta^{18}\text{O}$ points of ground ice are isotopically lighter than the precipitation" – Again bad wording. Please, rephrase. A point cannot be lighter.

Answer: Thanks, I have revised all the expressions.

Line 371: "isotopically light values"- A bad wording again. A value cannot be light.

Answer: Yes, I have revised it into "lower isotopic values"

Line 415: "partial of the isotopic dots" – some of the points

Answer: I have revised it according to your comment.

Line 419: "the partial of isotope points" – some of the points.

Answer: I have revised it.

Line 423: "negative isotopes" – it does not exist. A delta value can be negative in this case.

Answer: Thanks, I have revised it.

Lines 450-451: "high values in summer and low values in winter" – high delta values in summer and low delta values in winter

Answer: Yes, your suggestion is good. I have revised it.

Lines 455-456: "The isotopically lighter values" – A value cannot be isotopically lighter. The water can be isotopically lighter. The value is lower.

Answer: I have revised it.