

Interactive comment on “Air–surface exchange of gaseous mercury over permafrost soil: an investigation at a high-altitude (4700 m a.s.l.) and remote site in the central Qinghai-Tibet Plateau” by Zhijia Ci et al.

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We thank the reviewer for the insightful comments and valuable suggestions. We have incorporated the reviewer’s suggestions into the revised manuscript to improve the quality of our paper. Please find our point-by-point responses to the comments below in bold.

This manuscript investigated the mercury emission from permafrost soil in QTP and studied its controlling factors including the rainfall, snowfall, soil temperature and solar

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radiation. This work is very significant for this region with unique climate condition. I recommend this paper to be accepted. In addition, more studies were needed to explore its mechanism.

Response: We appreciate the reviewer’s recognition of the merits of this work.

Line 99, please give the specific flushing flow rate.

Response: The specific flushing flow rate was given in the third paragraph of Section 2.2.

2. Line 410, low soil temperature is unfavorable for Hg(0) emission, however, how could understand your explanation of low soil temperature favors to absorb Hg(0).

Response: This issue has been addressed by the previous studies (e.g., Park et al., 2014 and references therein). The related reference has been added in the revised manuscript.

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