

Interactive comment on “Temporal trend and sources of speciated atmospheric mercury at Waliguan GAW station, northwestern China” by X. W. Fu et al.

X. W. Fu et al.

fengxinbin@vip.skleg.cn

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Response to reviewer #1

We thank the reviewer for taking time to read our paper and presenting comments and criticism. Most of the comments are relevant and important to our paper. We addressed each of these comments as follows and marked the correction with red in the manuscript. 1. The ‘atmospheric’ was changed to ‘atmosphere’ in line 3 on page 3. 2. The sentence was revised as shown in line 9-11 on page 3. 3. ‘Through’ was change to ‘though’ in line 11 on pages 3. 4. This sentence was revised as shown in line 13-15 on page 3. 5. This sentence was revised as shown in line 5 on page 5.

6. The unit of 'm' was changed to 'min' in line 6 on page 6. 7. 'LT' means local time 8. 'soda and lime trap' is better here. 9. 'stable' was changed to 'constant' in line 6 and 8 on page 9. 10. The residence time of PHg and RGM as well as the references were shown in line 8-11 on page 3. 11. This sentence was revised as shown in line 8-10 on page 9. 12. This sentence was revised as shown in line 26-28 on page 9. 13 and 14. We did not show the statistical result for the difference. As shown in line 5-11 on page 11, the TGM concentrations of the easterly flows during night were 2.8-8.6% higher than those during daytime, whereas for westerly, southerly and northerly flows the night values were lower than daytime. We suppose this difference here should be clear. 15. It should be pointed out that the arriving height and trajectory height during transport mentioned in sect 3.3 and 3.4, as well as Figure 5 are not elevations but height above surface ground. 16. The 'was' was changed to 'is' in line 9 on page 13. 17. This sentence of revised as shown in line 33-34 on page 13

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