

Interactive comment on “High levels of reactive gaseous mercury observed at a high elevation research laboratory in the Rocky Mountains” by X. Faïn et al.

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We would like to thank Seth Lyman for pointing out this mistake in our manuscript. We carefully checked the settings of our analyzer 2537B, and directly discussed with Tekran technical support. We can confirm that our analyzer was referenced to STP condition (0°C, 1 atm) during our study.

Thus we corrected our manuscript:

1. All concentrations should now be considered STP (as mentioned in section 2.2 of a final manuscript that we will submit as soon as possible).

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2. We also re-calculated the particle size cutoff by the impactor, actually based on the pressure and temperature at Storm Peak Laboratory during our sampling period (278K, 698 mbar). Previous cutoff size was 2.6 μm . Corrected cutoff size is 2.5 μm (see section 2.2 of final manuscript).

These corrections do not influence our conclusions.

However, one could read in the manual of the Tekran analyzer 2537, paragraph 1.2.7. (Sample Volume Measurement):

"The instrument is supplied with volumes referenced to Normal Temperature and Pressure (NTP)."

This was confusing for us, and this comment from Seth Lyman may be useful for other studies.

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 15641, 2009.

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