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***Interactive comment on* “Micrometeorological measurement of hexachlorobenzene and polychlorinated biphenyl compound air-water gas exchange in Lake Superior and comparison to model predictions” by M. D. Rowe and J. A. Perlinger**

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We thank the anonymous referee for reviewing our manuscript.

Referee #1: To my knowledge, this is the first study that has directly measured PCBs and HCB fluxes using micrometeorological measurements.

After our APCD paper was published, we became aware of the paper by Sandy et

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al. (2011) reporting aerodynamic gradient measurements of PCB air-water exchange fluxes that was published one month before our APCD article. We included a reference to Sandy et al. in the introduction, and modified our claim of novelty to ship-based micrometeorological measurements of PCB air-water exchange fluxes.

Referee #1: Page 985, line 26, replace “measurment” with “measurement”.

The typographical error was corrected in the final manuscript.

Referee #1: Page 995 in the chemical Analysis section the authors state that 144 PCB congeners were measured, but only fluxes for 6 PCBs are reported. Why do the authors only choose to report these congeners out of the 144 measured?

A sentence was added to the final manuscript, “Only those analytes that frequently exceeded the method detection limit are discussed subsequently.”

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 983, 2012.

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