

Interactive comment on “Effects of temperature and other atmospheric conditions on long-term gaseous mercury observations in the Arctic” by A. S. Cole and A. Steffen

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"Hi Amanda and Sandy,

I enjoyed your article. Re the correlation with wind speed: I was wondering whether you'd tried separating the AMDEs into local and non-local events. You could do that using concentrations of RGM and PHg; they would be elevated for local events only. Correlating group type with wind speed might then turn something up?

Dorothy."

– Hi Dorothy,

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Thank you for the suggestion. We have not done this analysis yet, in part because measurements of reactive gaseous mercury (RGM) and particulate mercury (PHg) are only available for a small portion of the measurement period, and in part because it is not totally certain that high levels are necessarily indicative of local events (especially for PHg). Sandy is exploring the speciated mercury data in more detail, so she may address this in the future.

Amanda

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 27167, 2009.

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