3/29/2016

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Dry-air mole fractions of CCl4 that were reported and interpreted in the paper by Hu et al. (2016) are available in the files described below. We hope to encourage collaborative efforts so request that you notify the corresponding authors if you will be using this data in a presentation, publication, or report.

The appropriate citation associated with these data is:

Hu, L., S. A. Montzka, B. R. Miller, A. E. Andrews, J. B. Miller, S. J. Lehman, C. Sweeney, S. M. Miller, K. Thoning, C. Siso, E. L. Atlas, D. R. Blake, J. de Gouw, J. B. Gilman, G. Dutton, J. W. Elkins, B. Hall, H. Chen, M. L. Fischer, M. E. Mountain, T. Nehrkorn, S. C. Biraud, F. L. Moore, and P. Tans (2016),Continued emissions of carbon tetrachloride from the United States nearly two decades after its phaseout for dispersive uses, Proc. Natl. Acad. Sci. USA, 113(11), 2880-2885.

If you have any questions, please refer to our paper or contact the corresponding authors:

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Files “CCl4\_US\_tower\_data.csv” and “CCl4\_US\_aircraft\_data.csv” include sampling and analysis details of CCl4 measurements made from tower and airborne flask-air samples. Only data that were used in the inverse analysis are included in these files. More information about these sites at which measurements were performed can be found at:

<http://www.esrl.noaa.gov/gmd/ccgg/aircraft/index.html>

and

http://www.esrl.noaa.gov/gmd/ccgg/insitu/index.html

Please note that mole fractions of CCl4 from towers (as presented in “CCl4\_US\_tower\_data.csv”) have been adjusted downward by 0.3 ppt relative to our measured values due to the difference we observed in collocated tower and aircraft measurements at LEF and WBI. Aircraft data from the site SGP were also excluded from the analysis because of anomalously low values observed in the free troposphere at SGP.

Data columns in the files correspond to (from left to right): Site Code, Sample Year, Sample Month, Sample Day, Sample Hour, Sample Minute, Sample Second, Sample Latitude, Sample Longitude, Terrain Height, Sample ID, Event Number, Analysis Year, Analysis Month, Analysis Day, Analysis Hour, Analysis Minute, Analysis Second, Analysis Instrument, Observed Mole fraction (ppt CCl4), Estimated Background Mole Fraction (ppt CCl4), Note (indicating when the reported mole fractionis an average from two sampled flasks).