

Air Resources Laboratory Publications – 2016 FY

1. Anderson, D. C.,...**M. Cohen**...**B. Stunder**...et al. (2016). A pervasive role for biomass burning in tropical high ozone/low water structures. *Nature Communications*. 7. [10.1038/ncomms10267](https://doi.org/10.1038/ncomms10267)
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3. Battye, W. H., Bray, C.D., Aneja, V. P., **Tong, D.**, **Lee, P.**, and **Tang, Y** (2016). Evaluating ammonia (NH₃) predictions in the NOAA National Air Quality Forecast Capability (NAQFC) using in situ aircraft, ground-level, and satellite measurements from the DISCOVER-AQ Colorado campaign. *Atmospheric Environment* 140: 342-351. <http://dx.doi.org/10.1016/j.atmosenv.2016.06.021>
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8. Chang, C.-Y., E. Faust, X. Hou, **P. Lee**, **H. C. Kim**, B. C. Hedquist, and K.-J. Liao (2016). Investigating Ambient Ozone Formation Regimes in Neighboring Cities of Shale Plays in Northeast United States using Photochemical Modeling and Satellite Retrievals, *Atmospheric Environment*. 142, 152-170, [doi:10.1016/j.atmosenv.2016.06.058](https://doi.org/10.1016/j.atmosenv.2016.06.058)
9. Chen, B., **Stein, A.F.**, Castell, N., Gonzalez-Castanedo, Y., de la Campa, A.M.S., de la Rosa, J.D. (2016). Modeling and evaluation of urban pollution events of atmospheric heavy metals from a large Cu-smelter. *Science of the Total Environment* 539: 17-25. [doi:10.1016/j.scitotenv.2015.08.117](https://doi.org/10.1016/j.scitotenv.2015.08.117)
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11. **Cohen, M. D.**, **R. R. Draxler**, **R. S. Artz**, P. Blanchard, M. S. Gustin, Y. Han, T. A. Holsen, D. A. Jaffe, **P. Kelley**, H. Lei, **C. P. Loughner**, **W. T. Luke**, S. L. Lyman, D. Niemi, J. M. Pacyna, M. Pilote, L. Poissant, D. Ratte, **X. Ren**, F. Steenhuisen, A. Steffen, R. Tordon and S. Wilson (2016). Modeling the global atmospheric transport and deposition of mercury to the Great Lakes. *Elementa Science of the Anthropocene* 4: 000118. [doi: 10.12952/journal.elementa.000118](https://doi.org/10.12952/journal.elementa.000118)
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16. **Diamond, H.J.**, and C. J. Schreck, Eds., (2016). The Tropics in [State of the Climate in 2015]. *Bulletin of the American Meteorological Society*, 97(8), S93-129 [doi:10.1175/2016BAMSStateoftheClimate](https://doi.org/10.1175/2016BAMSStateoftheClimate).
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Dumas, E. J., T. R. Lee, M. Buban, and B. Baker (2016) Small Unmanned Aircraft System (sUAS) measurements during the 2016 Verifications of the Origins of Rotation in Tornadoes Experiment Southeast (VORTEX-SE). NOAA technical memorandum OAR ARL- 273, July 2016. <http://doi.org/10.7289/V5/TM-OAR-ARL-273>

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Calendar Year 2019 Publications



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4. Barkley, Z.R., Lauvaux, T., Davis, K. J., Deng, A., Fried, A., Weibring, P., Richter, D., Walega, J. G., DiGangi, J., Ehrman, S. H., **Ren, X.**, and Dickerson, R. R. (2019). Estimating Methane Emissions from Underground Coal and Natural Gas Production in Southwestern Pennsylvania. *Geophysical Research Letters*, 46(8), 4531-4540, <https://doi.org/10.1029/2019GL082131>
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29. Quardokus Fisher, K., Kaufman, E., Calagna, O., **Myles, L.**, Brinkworth, C., Simmons, D., and Dixon, P.G. (2019). Developing Scientists as Champions of Diversity to Transform the Geosciences. *Journal of Geoscience Education* 67, 459-471, <https://doi.org/10.1080/10899995.2019.1618692>
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1. Ahn, D., Hansford, J. R., Howe, S., **Ren, X.**, Salawitch, R. J., Zeng, N., **Cohen, M. D.**, **Stunder, B.** Salmon, O. E., and Shepson, P. B., Gurney, K. R., T. Oda, A. Karion, I. Lopez-Coto, R. R. Dickerson, Fluxes of Atmospheric Greenhouse-Gases in Maryland (FLAGG-MD): Emissions of Carbon Dioxide in the Baltimore-Washington area, *Geophys. Res.– Atmos.*, 125, e2019JD032004, <https://doi.org/10.1029/2019JD032004>, 2020.
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