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Talk: [From Emission Inventory To Atmospheric Process Studies: A Case Analysis Of Central American Biomass Burning Aerosols](#)

Selected Publications:

Wang, J., *X. Xu, R. Spurr, Y. Wang, and E. Drury, Improved algorithm for MODIS satellite retrievals of aerosol optical thickness over land in dusty atmosphere: Implications for air quality monitoring in China, *Remote Sensing of Environment*, 2010, in press.

Peterson, D., J. Wang, C. Ichoku, and L. Remer, Effects of lightning and other meteorological factors on fire activity in the North American boreal forest: Implications for fire weather forecasting *Atmospheric Chemistry and Physics*, accepted for discussion.

Wang, J., van den Heever, S. C., and Reid, J. S.: A conceptual model for the link between Central American biomass burning aerosols and severe weather over the south central United States, *Environ. Res. Lett.*, 4, 2009.

Drury, E., Jacob, D. J., Wang, J., Spurr, R. J. D., and Chance, K.: Improved algorithm for MODIS satellite retrievals of aerosol optical depths over western North America, *J. Geophys. Res.-Atmos.*, 113, 2008.

Wang, J., and Christopher, S. A.: Mesoscale modeling of Central American smoke transport to the United States: 2. Smoke radiative impact on regional surface energy budget and boundary layer evolution, *J. Geophys. Res.-Atmos.*, 111, 2006.

Wang, J., and Christopher, S. A.: Intercomparison between satellite-derived aerosol optical thickness and PM2.5 mass: Implications for air quality studies, *Geophys. Res. Lett.*, 30, doi:10.1029/2003GL018174, 2003.

Wang, J., Christopher, S. A., Brechtel, F., Kim, J., Schmid, B., Redemann, J., Russell, P. B., Quinn, P., and Holben, B. N.: Geostationary satellite retrievals of aerosol optical thickness during ACE-Asia, *J. Geophys. Res.-Atmos.*, 108, doi:10.1029/2003JD003580, 2003a.

Wang, J., Christopher, S. A., Reid, J. S., Maring, H., Savoie, D., Holben, B. N., Livingston, J. M., Russell, P. B., and Yang, S. K.: GOES 8 retrieval of dust aerosol optical thickness over the Atlantic Ocean during PRIDE, *J. Geophys. Res.-Atmos.*, 108, 2003b.

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Wang, J., Nair, U. S., and Christopher, S. A.: GOES 8 aerosol optical thickness assimilation in a mesoscale model: Online integration of aerosol radiative effects, *J. Geophys. Res.-Atmos.*, 109, D23203, doi:23210.21029/22004JD004827, 2004a.

Wang, J., Xia, X. G., Wang, P. C., and Christopher, S. A.: Diurnal variability of dust aerosol optical thickness and Angstrom exponent over dust source regions in China, *Geophys. Res. Lett.*, 31, L08107, doi:08110.01029/02004GL019580, 2004b.