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Interactive comment on “Spectral dependence of aerosol light absorption over the Amazon Basin” by L. V. Rizzo et al.

L. V. Rizzo et al.

luvarizzo@gmail.com

Received and published: 21 July 2011

We would like to greatly thank all four referees, as well as Dr. Moosmüller, for their extremely helpful comments and suggestions for making our manuscript better. After carefully considering each comment, we have prepared responses to each comment and described changes made to the revised manuscript.

Additional references included in the manuscript:

Collaud Coen, M., Weingartner, E., Apituley, A., Ceburnis, D., Fierz-Schmidhauser, R., Flentje, H., Henzing J. S., Jennings, S. G., Moerman, M., Petzold, A., Schmid, O., and Baltensperger, U.: Minimizing light absorption measurement artifacts of the Aethalometer: evaluation of five correction algorithms, *Atmos. Meas. Tech.*, 3, 457–

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Fuzzi, S., Andreae, M. O., Huebert, B. J., Kulmala, M., Bond, T. C., Boy, M., Doherty, S. J., Guenther, A., Kanakidou, M., Kawamura, K., Kerminen, V.-M., Lohmann, U., Russell, L. M. and Pöschl, U.: Critical assessment of the current state of scientific knowledge, terminology, and research needs concerning the role of organic aerosols in the atmosphere, climate, and global change, *Atmos. Chem. Phys.*, 6, 2017–2038, 2006.

Gyawali, M., Arnott, W. P., Lewis, K., and Moosmüller, H.: In Situ Aerosol Optics in Reno, NV, USA during and after the Summer 2008 California Wildfires and the Influence of Absorbing and Non-Absorbing Organic Coatings on Spectral Light Absorption, *Atmos. Chem. Phys.*, 9, 8007–8015, 2009.

Lack, D. A., Cappa, C. D., Cross, E. S., Massoli, P., Ahern, A. T., Davidovits, P., and Onasch, T. B.: Absorption enhancement of coated absorbing aerosols: validation of the photo-acoustic technique for measuring the enhancement, *Aerosol Sci. Tech.*, 43, 1006–1012, doi:10.1080/02786820903117932, 2009.

Moosmüller, H., and Chakrabarty, R. K.: Technical Note: Simple analytical relationships between Ångström coefficients of aerosol extinction, scattering, absorption, and single scattering albedo, *Atmos. Chem. Phys. Discuss.*, 11, 19213–19222, doi:10.5194/acpd-11-19213-2011, 2011b.

Nakayama, T., Kondo, Y., Moteki, N., Sahu, L. K., Kinase, T., Kita, K., and Matsumi, Y.: Size-dependent correction factors for absorption measurements using filter-based photometers: PSAP and COSMOS, *J. Aerosol Sci.*, 41, 333–343, 2010.

Procopio, A. S., Remer, L. A., Artaxo, P., Kaufman, Y. J. and Holben, B. N.: Modeled spectral optical properties for smoke aerosols in Amazonia, *Geophys. Res. Lett.*, 30(24), 2265, doi:10.1029/2003GL018063, 2003.

Procopio, A. S., Artaxo, P., Kaufman, Y. J., Remer, L. A., Schafer, J. S. and Holben,

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