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

Anonymous Referee #3

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The authors present the results from field experiments in the Amazon Basin. They derive the aerosol absorption coefficients and the wavelength dependence. The results are interesting and have scientific value.

I believe the paper should be accepted for publications subject to minor revisions.

Specific comments

I only have a couple comments to make that are different than the other two reviewers.

1. The authors go through an uncertainty analysis of the method of determining the absorption coefficient. However, given an uncertainty of the absorption coefficient the uncertainty of the Angstrom coefficient can be derived independent of the method of determining the absorption coefficient. Can they discuss the uncertainty of the Angstrom coefficient?
exponent by itself? This also relates to the comment by reviewer 2 about whether the low values of the Angstrom exponent may be simply within the uncertainty limits.

2. page 11551 line 9 I don’t think the word "widespread" is justified there.

3. I assume that the authors can estimate the single scattering albedo as a function of wavelength. I would be interested in how much the estimated single scattering albedo varies.

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 11547, 2011.