

Interactive
Comment

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

Anonymous Referee #4

Received and published: 9 June 2011

The paper present results on the wavelength dependence of aerosol light absorption measured using two Aethalometers (AE20 & AE30) at different sites and seasons of the Amazon basin based on various field experiments. The manuscript contains valuable information on the absorption properties of aerosols and is a very important scientific contribution. The paper is written and presented well and should be published in ACP.

A few minor comments:

1. P.11548 L9: Aethalometer AE20 measures the absorption at 370 nm (UV) and 880 nm (NIR) and not "visible" as mentioned in the abstract.
2. P.11549 L22, and P.11550 L3: Typo needs to be corrected ("Shuster" → "Schuster").
3. P.11549 L 22; 11550 L14: "Angstrom (1929)", and "Bond and Bergstrom (2006)" are

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cited in the text but missing from the list of references.

4. P.11552: It would nice if the authors could add a figure showing a map with the measurement sites.

5. P.11560 L5: "...calculated the Aethalometer..." → "...calculated Aethalometer..."

6. P.11562 L4: "biological" → "biogenic"

7. "Bond (2001)", "Graham et al. (2003)", "Guyon et al. (2003)", "Muller et al. (2011)", and "Yamasoe et al. (2000)" are not cited in the text, but mentioned in the list of references. Please check these references.

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

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