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Interactive comment on “Aerosol fluxes and dynamics within and above a tropical rainforest in South-East Asia” by J. D. Whitehead et al.

Anonymous Referee #1

Received and published: 11 June 2010

General:

This paper presents the first measurements of aerosol fluxes above South-Eastern Asia. The paper is very well written, original and scientifically sound. I have only a few very minor comments for the authors to consider before acceptance for publication.

Comments:

Page 12026, line 22: What is meant by "Maritime Continent region"?

Page 12026, line 28: This paper focuses on aerosol transport (small-scale one), rather than aerosol dynamics. Usually, aerosol dynamics refers to processes that shape the aerosol size distribution.

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Page 12036, line 15: To me, the particle number size distribution in Figure 4 is at least bi-modal, with mode mean diameters at about 50 and 150 nm. Furthermore, the modes are not very narrow. Thus, the impression given by authors that there is a mode at 50 nm is not correct to me.

The authors use the following expressions: "within canopy", "in-canopy" and "below canopy", presumably to indicate the same thing. Please be more consistent in terminology.

Figure 6 is a bit confusion. Would it be better to separate this two picture clearly into separate ones, i.e. 6a and 6b?

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 12023, 2010.

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