

***Interactive comment on “A comparison study of regional atmospheric simulations with an elastic backscattering Lidar and Sunphotometry in an urban area” by E. Landulfo et al.***

**Anonymous Referee #1**

Received and published: 12 May 2009

General Comments

The overall quality of the discussion paper is fair, as it presents new (for that area) data about regional atmospheric simulations and elastic lidar and CIMEL sunphotometer data.

Specific Comments

Page 9166, correlation coefficient between the AOT values should be given.

Technical Corrections

Page 9152 Line 2 /Aerosol Optical Thickness/ instead of /aerosol optical thickness/ Line

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14 Replace /Aerosol Optical Thickness/ by /AOT obtained by lidar and sun photometry/.  
Line 19 Replace /got/ by /were/

Page 9153 Line 5 Replace /others/ by /other/ Line 8 Replace /does/ by /do/ Line 11  
Replace /inspect/ by /study/ Line 12 Put Freitas et al. (2005) in [] Line 13 Replace  
/these/ by /such aerosol/ Line 18 Replace /these/ by /aerosol/ Line 20 Put /(PBL)/ after  
/Layer/ Line 24 Put /(PM2.5)/ before /, and/ Lines 28-29 Put /the/ before /Angstrom/,  
/Aerosol/, /Extinction/ Replace /Depth/ by /Thickness/ Line 30 Replace /this period/ by  
/the time period considered/

Page 9154 Line 11 Replace /sensing/ by /sensing techniques/

Page 9155 Line 5 After /counts/ put /counts, as described below/ and give references  
Line 22 Replace /This/ by /This coaxial lidar/ Line 23 Omit /and coaxial mode/ Line 25  
Replace /the/ by /The/

Page 9156 Line 2 Replace /typically about 0.5 mrad/ by /typically about 0.5 mrad at  
85%(2sigma-level) of energy/ Lines 7-8, 10 Omit /Hamamatsu/ and /Licel GmbH/ Line  
12 Replace /raw/ by /raw spatial/ Replace /ns/ by /ns sampling/

Page 9157 Put /:/ before equations 1 and 2 Line 23 Replace /propertie/ by /property/

Page 9158 Line 5 Replace /Also/ by /Also,/ Line 7 Replace /data e/ by /data,/ Line 17  
Not in capital letters /SUNPHOTOMETER/

Page 9159 Line 14 After /literature/ give references

Page 9160 ]Line 2 Replace /make/ by /made/ Line 4 Omi /we have/ Line 5 Replace  
/running/ by /are established/ Line 6 Replace /picked/ by /chosen/ Line 8 Replace /took/  
by /simulated/

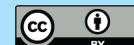
Page 9162 Line 8 Replace /sinergy/ by /synergy/ Line 10 Replace /Aerosol Optical  
Thickness, Angstrom Exponent and extinction/ By /AOT, the AE and the extinction/  
Line 12 Replace /There is a/ by /A/ Replace /between/ by /was found between/

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Page 9166 Not in capital letters /SUNPHOTOMETER/

Page 9167 /Brazilian/, not /brazilian/ replace /Aerosol Optical Thickness/ by /AOT/

Page 9168 Replace /Thickness, Angstrom Exponent/ by /AOT and AE from CIMEL sunphotometer/

Page 9169 Replace /Aerosol Optical Thickness/ by /AOT from CIMEL sunphotometer/

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Interactive comment on Atmos. Chem. Phys. Discuss., 9, 9151, 2009.

**ACPD**

9, S2079–S2081, 2009

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