

Interactive comment on “Air quality in Delhi during the Commonwealth Games” by P. Marrapu et al.

Anonymous Referee #2

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This a valuable and well-written paper on a regional model simulation of air quality in Delhi. A high resolution simulation of the city makes use of a new high resolution emissions inventory. The results are clearly presented and evaluated with a new network of observations. The high resolution model allows for a quantitative evaluation of the emissions inventory. The contribution of different anthropogenic emissions source sectors was determined through a series of sensitivity studies to guide emissions control strategies. In addition to assessing the air quality in Delhi, and the factors affecting it, this study shows the value of high resolution inventories and simulations. I recommend publication after a couple minor corrections.

Technical corrections.

Section 3.3: The description of the sector contribution simulations is not clear. An example is given of the determination of the Transportation sector contribution. But

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line 20, says "the other 3 sectors" are determined the same way, and the fourth sector is estimated by difference. What is this "forth sector" [sic]? Transportation plus 3 other sectors is 4 sectors.

p. 10036, ln 7: should be Fig. 10, not 12.

p.10039, ln 19: show -> shown

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 10025, 2014.