

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

P. Marrapu et al.

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Thank you for your comment. We did show the improvements with the reduced NO_x emissions in the Figure 6. The two bars in the box whisker plot shows the results from base case (full NO_x emissions) and NO_x emissions reduced by 30% case with maximum and minimum error bars. The results show that there is improvement in the Ozone and NO_x predictions.

Response to the comment regarding sector based calculations is : We understand that the 100% perturbation of emissions (zero -out) can be problematic for Ozone. However in our experience we zero out the sectors one by one, not all the emissions. Zero out sector runs only perturbed emissions by 5% to 30% , so the non linearities are limited. We found that a 30% reduction in NO_x emissions changed Ozone by 37%.

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The misplacement of figure numbering is taking care in the manuscript.

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

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