The authors want to kindly thank all reviewers for their very fruitful comments and thoughts. We include below a point by point response to their suggestions.

**Answers to the first referee**

**Specific comments**

1. Introduction Page 28081, Line 2 – Suggest adding have before generally
   *done*

2. Page 28082, Line 1 – Suggest adding experiments after chamber
   *done*

3. Page 28082, Lines 13, 15, and 18 – The chemical formulas used have not been defined
   *All formulas are now defined in the text.*

4. Acknowledgements Page 28092, Line 4 – Suggest changing author to authors
   *done*

5. References Page 28092, Line 11 – Accent marks are missing from Prevot,
   *Page 28093, Line 20 – Accent marks are missing from Prevot*
   *done*

6. Line 26 – Believe levels Of O-3 should be levels of O3
   *done*

7. Page 28093, Line 27 – Believe NO chi should be NOx
   *done*

8. Page 28094, Line 10 – Accent marks are missing from Prevot,
   *Page 28094, Line 25 – Accent marks are missing from Prevot,
   *Page 28095, Line 18 – Accent marks are missing from Prevot,
   *Page 28095, Line 32 – Accent marks are missing from Prevot,
   *Page 28096, Line 16 – Accent marks are missing from Prevot,
   *Page 28097, Line 26 – Accent marks are missing from Prevot*
   *done*

9. Figure 2 -Believe f43 on the y-axis of plot c should be in italics,
   *Figure 4 -Believe f44 and f43 on the y- and x-axes should be in italics*
   *done*

10. Figure 5 -It looks like there is something overlapping with the units on the y-axis of plot
    *corrected*
11. Supplementary Material Winter 2011 Page 1, Line 1 – Suggest removing the the before Winter
done

12. Supplementary Material Winter 2011 Page 1, Line 3 – Suggest changing peak a to peak at
done

13. Supplementary Material Winter 2011 Page 1, Figure S1 caption – In first line of caption suggest changing for the winter to during winter
done

14. Supplementary Material Winter 2011 Page 2, Figure S2 caption – Suggest changing for the winter to during winter
done

15. Supplementary Material Summer 2011 Page 3, Line 1 – Suggest removing the the before summer
done

16. Supplementary Material Summer 2011 Page 3, Figure S4 caption – In first line of caption suggest changing over the winter to over summer
done

17. Supplementary Material Summer 2011 Page 4, Figure S5 caption – In first line of caption suggest removing the the before summer
done

18. Supplementary Material Summer 2011 Page 4, Figure S6 – The units for EC should be ug C/m3
done