

Interactive comment on “The haze pollution under strong atmospheric oxidization capacity in summer in Beijing: Insights into the formation mechanism of atmospheric physicochemical process” by Dandan Zhao et al.

Anonymous Referee #1

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This paper focusses in detail on the physical and chemical processes involved in 2 extreme summer haze events in Beijing. In particular the paper looks into the coupling between the build of ozone and the resultant feedbacks on PM concentrations through the impacts on the oxidative capacity of the atmosphere. Overall, the paper also concludes the strong role that regional transport plays in such events. Finally the paper also concludes that meteorology plays an important role in the self cleaning effect of the atmosphere that ends such pollution events. Overall this paper is well written and uses robust methodology to support the above conclusions. However there

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are some relatively minor corrections that need addressing before publication can be recommended. In particular, there were a number of points in the paper where sentences were repeated. A number of these have been pointed out below but please ensure all are corrected in the revised manuscript.

Minor comments: Page 1, Line 18: Please remove the ~ symbol at the end of the line. No need to put approximations when quoting a range. Page 10, line 232: No need to reference GB3095-2012 again as you have already done this above. Page 15, Line 294: Please correct origin to originate. Page 15, Line 295: Please correct wee hours to early hours Page 15, Line 303: There is a lot of repetition in this sentence. Please simplify to 'Under persistent southerly winds, water vapour was carried to Beijing forming a moisture transport channel which strengthened.' Page 15, Line 305: Please remove conspicuous and just say increase. Page 22, Line 481: I don't understand why the phrasing 'The same work . . . ' Is used here. Please define.

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