

## ***Interactive comment on “Multimethod determination of the below-cloud wet scavenging coefficients of aerosols in Beijing, China” by Danhui Xu et al.***

### **Anonymous Referee #1**

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This paper reports multimethod determination of the below-cloud wet scavenging coefficients of aerosols in Beijing, China. The analysis and interpretation of the results are overall fair. The paper presents very useful information regarding the wet deposition of aerosol. However, some additional information is still necessary for the readers to better understand this work.

Specific comments: 1. The modeling analysis presented in this study is subject to some uncertainties. For example, the washout was only parameterized for precipitation intensity, the aerosol species and so on. The coagulation kernel ( $E$ ) was assumed to be a constant. What is the effect of this assumption on the modeling results? The authors

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should estimate the uncertainties of their modeling analysis, or at least state clearly the model configuration and limitation so that the readers can judge by themselves. 2. A brief introduction to Fig.3 should be provided, which should be much helpful for the readers to better understand this study. 3. There are only two cases in the paper, more field measurement estimation could decrease the influence produced by accidental elements, and give more convincing results.

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