

## ***Interactive comment on “Multiday haze in the East Asia: Transport and chemical aging of hygroscopic particles” by Yong Bin Lim et al.***

### **Anonymous Referee #1**

Received and published: 5 June 2018

In the manuscript, a hypothesis was proposed based on the intensive field measurements and validated by a smog chamber experiment. In addition, the authors discussed on the validity of the policy direction to reduce NO<sub>x</sub> emission.

The manuscript is well structured and the logical development of the hypothesis is reasonable. Also, the implications of the research results looks interesting. However, there are some parts that should be addressed in more detail and that can be improved. Thus, I recommend the manuscript be published in the ACP with some revisions. These points are:

1. In Abstract, it can be written more clearly. For example, the sentences in lines 15-17 can be re-written.
2. The hypothesis is a reasonable one. Still, in most areas in Northeast Asia, ammonia levels is rather high and it would affect the nitrate uptake

Printer-friendly version

Discussion paper



into the particulate phase. The authors should be discussed in more detail, especially, in section 3.3.2 on the effects of ammonia in the ambient conditions. 3. Line 18, p. 9: How the pH was measured? 4. The discussion in section 4.2 needs further discussion or clearer suggestion since it is against most policy directions used by the countries in Northeast Asia. 5. Section 4.3 is missing

---

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-364>, 2018.

Printer-friendly version

Discussion paper

