

## ***Interactive comment on “New approach to monitor transboundary particulate pollution over northeast Asia” by M. E. Park et al.***

**M. E. Park et al.**

mep@gist.ac.kr

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First of all, we thank the reviewer for careful reading of our manuscript and constructive comments. We have revised the manuscript, following both reviewers' suggestions.

We have also removed/added/changed the words and sentences in the manuscript. The changed and added parts are painted in a red color in the text. Please, check them out.

#1. The only suggestion for modifying the content is regarding Figure 7. It is a nice summary of the results of the assimilation and the effects of long-range transport. But the discussion of it on p.15885 (p.20 in the revised manuscript) is rather brief. Perhaps the implications of these findings, or discussion of the representativeness of the results,

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could be added here.

Reply) We added the details related to this point on p.20: line14-18.

#2. In the introduction, the same list of references is used 3 times (Leve . . . Yamaji). It would be nice to alter that a bit – pick the most appropriate as an example in the 2nd and 3rd cases.

Reply) We picked the most appropriate references for each cases. (p.3: line5, line9, line18, and line21)

Correction lists

- 1.p.9, line 14: Change “have equipped” to “are equipped”.
- 2.p.10, line 24: Change “applying for” to “applied to”.
- 3.p.14, line 9: Change “satellite-retrieving” to “satellite retrieval”.
- 4.p.14, line 11: Change “assimilation of the AOD data from the CMAQ model simulations and the GOCl sensor” to “assimilation of the AOD data from the GOCl sensor into the CMAQ model”.
- 5.p.14, line 16: Change “apply to” to “apply”.
- 6.p.14, line 22: Change “matters” to “matter”.
- 7.p.15, line 2: Change “have been focused” to “have been the focus”.
- 8.p.15, line 14: Change “matters” to “matter”.
- 9.p.21, line 14: Change “matters” to “matter”.

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