Atmos. Chem. Phys. Discuss.,
https://doi.org/10.5194/acp-2019-42-RC2, 2019

Atmospheric Chemistry and Physics Discussions

Interactive comment on "Impact of air pollution control measures and regional transport on carbonaceous aerosols in fine particulate matter in urban Beijing, China: Insights gained from long-term measurement" *by* Dongsheng Ji et al.

Anonymous Referee #1

Received and published: 9 April 2019

Carbonaceous aerosols are of great importance for air quality and climate. This manuscript presents long periods measurements of EC and OC in Beijing between 2013 and 2017. The results are informative under the background of China's Clean Air Act. Although the manuscript is well written generally, some conclusions are a little bit speculative, which could be improved in the revision.

Specifically, Concentrations of atmospheric compositions are influenced by both meteorology and emissions. The observed decreasing trend of OC and EC could be also attributed to changes in meteorological conditions, which was not discussed.

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Discussion paper

The strong correlation between OC and EC are not necessarily meaning they are from same source. Primary pollutants could correlate well with each other under same meteorology.

Please prove these statements with more detailed analysis.

Interactive comment on Atmos. Chem. Phys. Discuss., https://doi.org/10.5194/acp-2019-42, 2019.