

Interactive comment on “The air quality forecast of PM₁₀ in Beijing with Community Multi-scale Air Quality Modeling (CMAQ) system: emission and improvement” by Q. Wu et al.

Anonymous Referee #2

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This is a useful paper, attempting to improve MM5-SMOKE-CMAQ model performance in the forecast by using some numerical methods such as enhance the inner domain and update regional point and area source emission. This study could contribute to the model performance improvement but some concerns need to be noted, and I recommend some revision before publication. 1. Could the authors provide the model evaluation on the surrounding cities, eg. Tangshan, Baoding or Landfang, where more point sources have been added to improve the simulation. Actually, I know it is hard work to collect the observation in China, but that will help us to know the model performance in the surrounding areas. 2. Please add some comparisons before and after improving the source emission without expanding the domain to make sure the model

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performance due to the emissions updated. 3. The paper is well structured and in reasonable English. However, I suggest it is edited carefully for various grammatical and syntactic errors prior to publication.

Interactive comment on Geosci. Model Dev. Discuss., 7, 3403, 2014.