

Could the authors make the same graphs as Figures 10 and 11 using PM25 from the WRF experimental run as a reference? Because the basic assumption of this paper is that the derived PM25 data is better than the model simulation data.

Thank you for the suggestion. We have added a new figure comparing WRF-Chem simulated PM2.5 with EPA ground measurements. This comparison, presented after the GWR method results, highlights the limitations of standalone chemical transport models and further reinforces the value of applying GWR.