

**Supplementary material for the article "Multi-model  
Evaluation and Bayesian Model Averaging for Quantitative  
Air Quality Forecasting in Central China"**

**Haixia Qi<sup>1</sup>, Shuangliang Ma<sup>2\*</sup>, Jing Chen<sup>2</sup>, Junping Sun<sup>2</sup>, Lingling  
Wang<sup>2</sup>, Nan Wang<sup>2</sup>, Weisi Wang<sup>2</sup>, Xiefei Zhi<sup>3\*</sup>, Hao Yang<sup>1</sup>**

<sup>1</sup> *Hubei Key Laboratory for Heavy Rain Monitoring and Warning Research, Institute of Heavy  
Rain, China Meteorological Administration, Wuhan, China*

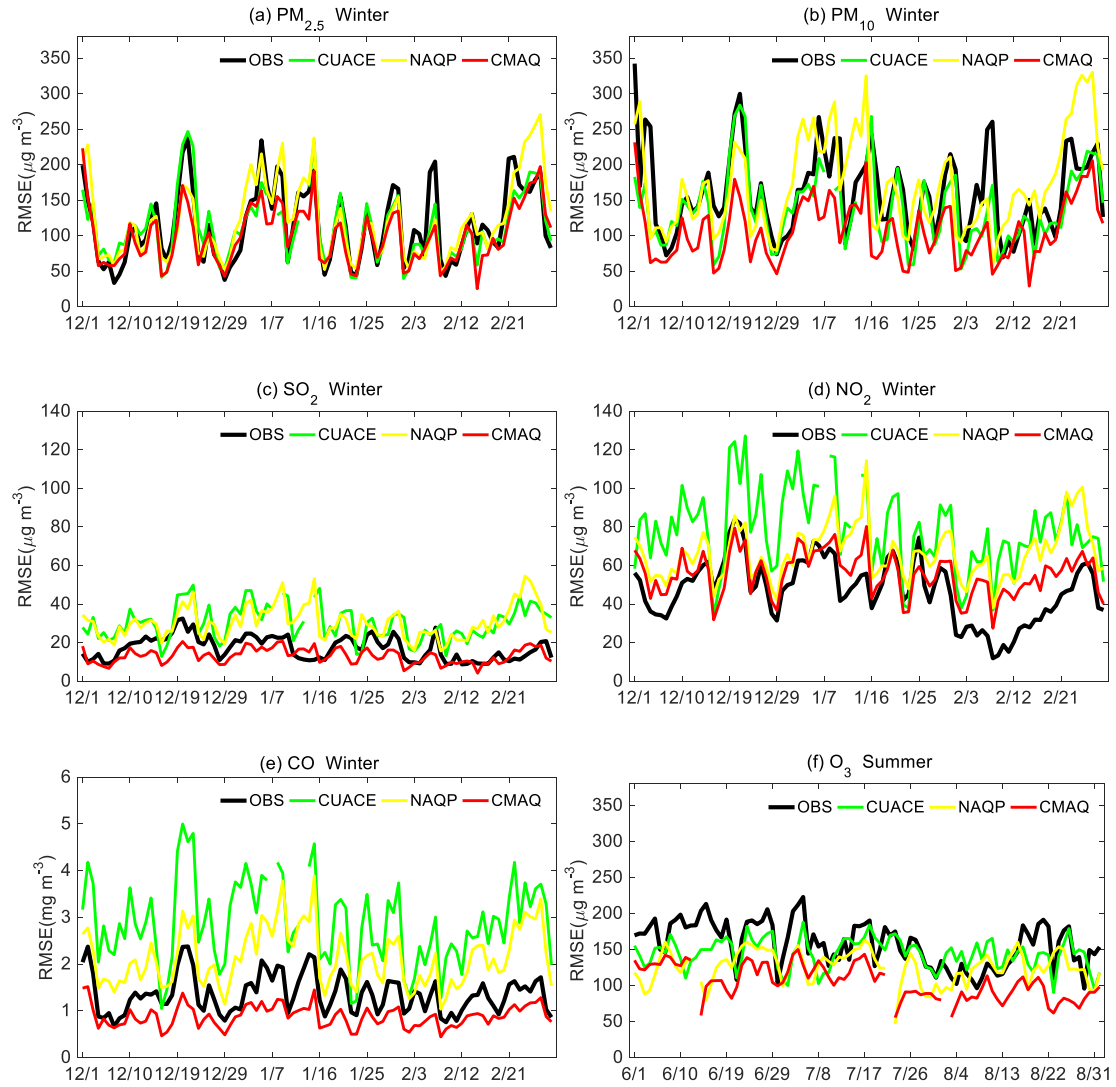
<sup>2</sup> *Henan ecological environment monitoring center, Henan, China*

<sup>3</sup> *Key Laboratory for Aerosol-Cloud-Precipitation of China Meteorological Administration,  
Nanjing University of Information Science and Technology, Nanjing, China*

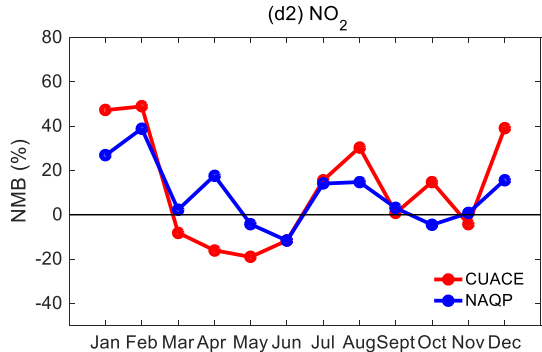
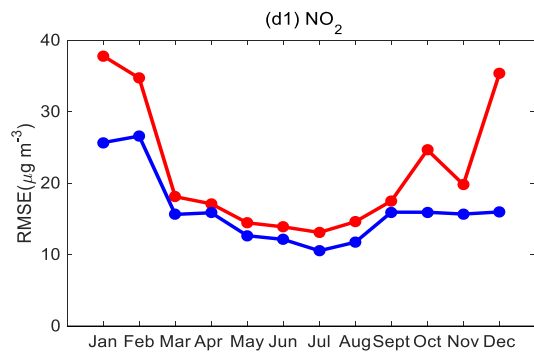
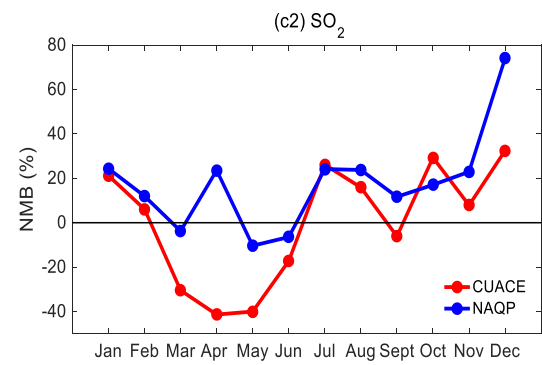
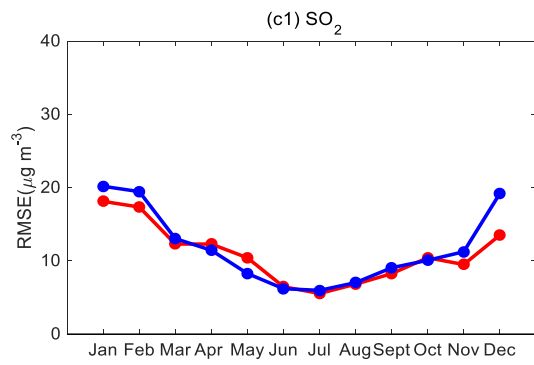
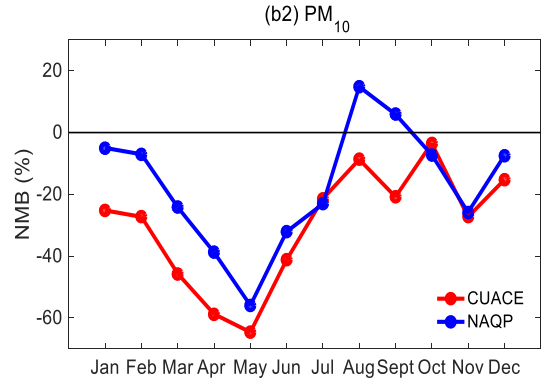
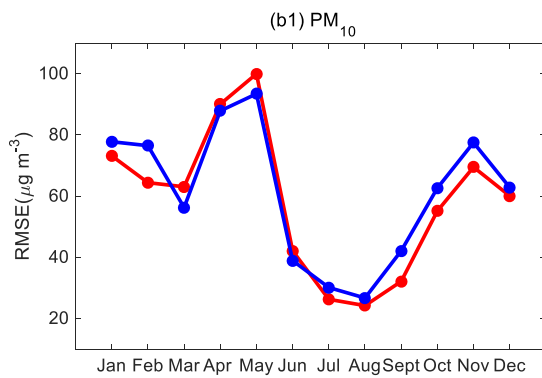
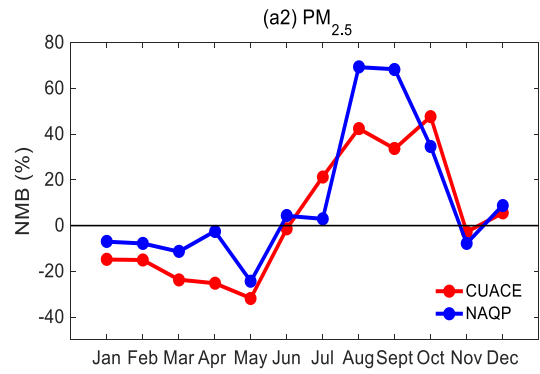
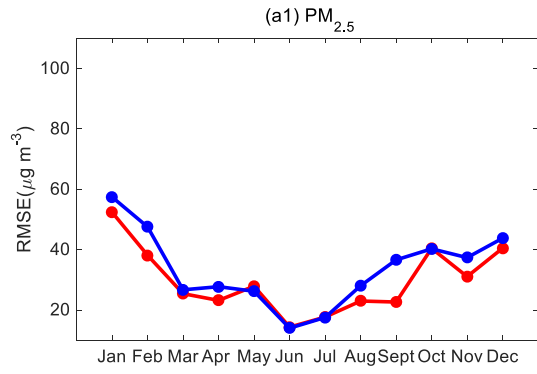
\* Corresponding author. Tel: 86-027-81804946; Fax: 86-027-81804916

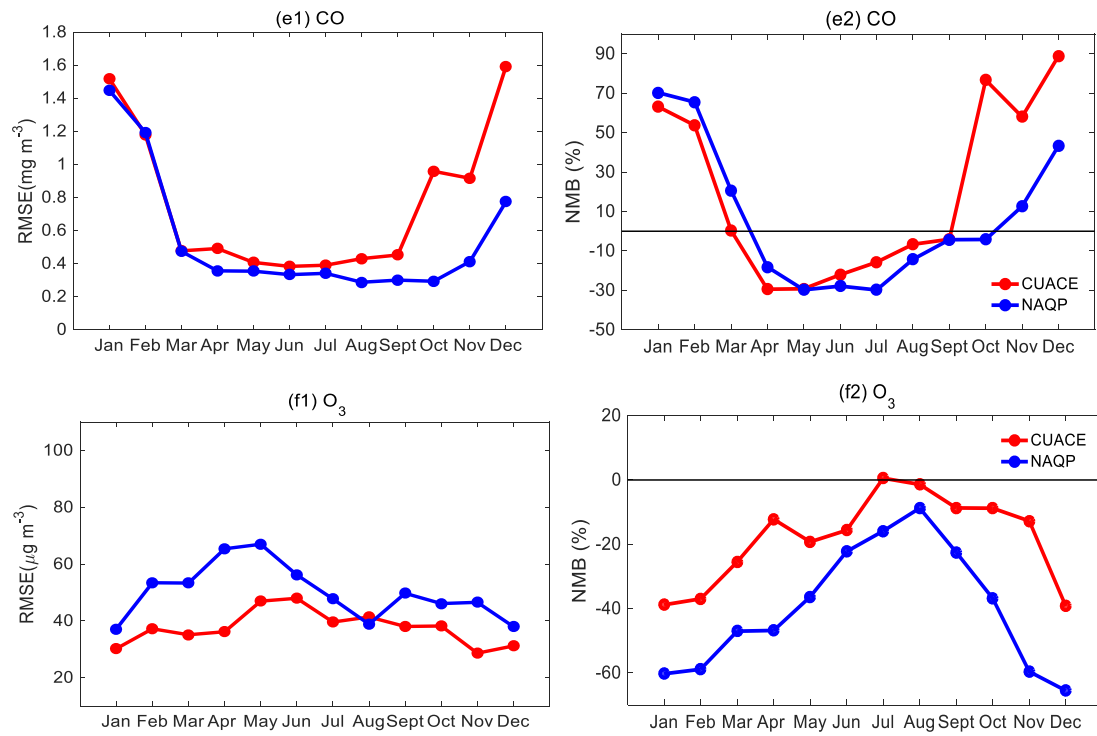
E-mail address: zlchen0217@sina.com

xf\_zhi@163.com



**Fig.S1.** Comparison of 24h forecasts of three models and observations about the concentrations of five pollutants in winter from 1 December 2018 to 28 February 2019 (a)  $PM_{2.5}$ , (b)  $PM_{10}$ , (c)  $SO_2$ , (d)  $NO_2$ , (e) CO, and (f)  $O_3$  in summer from June to August 2019.





**Fig.S2.** Monthly mean error distribution of the 24h concentration forecasts of the 6 pollutants by NAQP and CUACE in Henan Province from 2017 to 2019.