

Dear Dr. **Juan A. Añel**

We really appreciate your valuable suggestion on our manuscript entitled “*Inter-comparison of multiple two-way coupled meteorology and air quality models (WRF v4.1.1-CMAQ v5.3.1, WRF-Chem v4.1.1 and WRF v3.7.1-CHIMERE v2020r1) in eastern China*” (**Manuscript ID: GMD-2023-21**). To comply with the GMD’s policy, we have uploaded the source codes of WRF-CMAQ, WRF-Chem, WRF-CHIMERE used in our simulations at <https://doi.org/10.5281/zenodo.7901682> (Gao et al., 2023a; link: <https://zenodo.org/record/7901682>). The meteorological initial and boundary conditions (ICs and BCs) can be obtained at <https://doi.org/10.5281/zenodo.7925012> (Gao et al., 2023b; link: <https://zenodo.org/record/7925012>). The chemical ICs and BCs used for WRF-CMAQ, WRF-Chem and WRF-CHIMERE are available at <https://doi.org/10.5281/zenodo.7932390> (Gao et al., 2023; link: <https://zenodo.org/record/7932390>), <https://doi.org/10.5281/zenodo.7932936> (Gao et al., 2023d; link: <https://zenodo.org/record/7932936>), and <https://doi.org/10.5281/zenodo.7933641> (Gao et al., 2023e; link: <https://zenodo.org/record/7933641>), respectively. The emission data used for WRF-CMAQ, WRF-Chem and WRF-CHIMERE can be downloaded from <https://doi.org/10.5281/zenodo.7932430> (Gao et al., 2023f; link: <https://zenodo.org/record/7932430>), <https://doi.org/10.5281/zenodo.7932734> (Gao et al., 2023g; link: <https://zenodo.org/record/zenodo.7932734>), and <https://doi.org/10.5281/zenodo.7931614> (Gao et al., 2023h; link: <https://zenodo.org/record/zenodo.7931614>), respectively. Please note that due to the size of output data files and the size limit (**50 GB**) for data files on Zenodo, an output file of annual simulation from each model under each scenario needs to be divided into 3-4 parts. The DOIs and links for all the outputs uploaded on Zenodo are added in the revised reference list as shown below.

We revised the manuscript accordingly and all the relevant changes (in blue and italic) made in the revised manuscript are as follows:

1. The description of code availability has been revised to the revised manuscript:

*“Code availability*

*The original source codes of two-way coupled WRF v4.1.1-CMAQ v5.3.1, WRF-Chem v4.1.1, and WRF v3.7.1-CHIMERE v2020r1 models are obtained from*

<https://github.com/USEPA/CMAQ>, <https://github.com/wrf-model/WRF>, and <https://www.lmd.polytechnique.fr/chimere>, respectively (last access: November 2020). The related source codes, configuration information, namelist files and automated run scripts of these three two-way coupled models are archived at Zenodo with the associated DOI: <https://doi.org/10.5281/zenodo.7901682> (Gao et al., 2023a; link: <https://zenodo.org/record/7901682>). ”.

2. The description of data availability has been revised to the revised manuscript:

“Data availability

The meteorological ICs and BCs used for three coupled models can be obtained at <https://doi.org/10.5281/zenodo.7925012> (Gao et al., 2023b; link: <https://zenodo.org/record/7925012>). The Chemical ICs and BCs used for WRF-CMAQ, WRF-Chem and WRF-CHIMERE are available at <https://doi.org/10.5281/zenodo.7932390> (Gao et al., 2023c; link: <https://zenodo.org/record/7932390>), <https://doi.org/10.5281/zenodo.7932936> (Gao et al., 2023d; link: <https://zenodo.org/record/7932936>), and <https://doi.org/10.5281/zenodo.7933641> (Gao et al., 2023e; link: <https://zenodo.org/record/7933641>), respectively. The emission data used for WRF-CMAQ, WRF-Chem and WRF-CHIMERE can be downloaded from <https://doi.org/10.5281/zenodo.7932430> (Gao et al., 2023f; link: <https://zenodo.org/record/7932430>), <https://doi.org/10.5281/zenodo.7932734> (Gao et al., 2023g; link: <https://zenodo.org/record/7932734>), and <https://doi.org/10.5281/zenodo.7931614> (Gao et al., 2023h; link: <https://zenodo.org/record/7931614>), respectively. The DOIs and links regarding the output data of each simulation scenario are presented in Table 6. All data used to create figures and tables in this study are provided in an open repository on Zenodo (<https://doi.org/10.5281/zenodo.7750907>, Gao et al., 2023q; link: <https://zenodo.org/record/7750907>). ”.

Table 6 Summary of download information on model output of each simulation scenario

Scenario	DOI	Link	Reference
WRF-CMAQ_NO	<a href="https://doi.org/10.5281/zenodo.7951404">https://doi.org/10.5281/zenodo.7951404</a>	<a href="https://zenodo.org/record/7951404">https://zenodo.org/record/7951404</a>	Gao et al., 2023i_part1
	<a href="https://doi.org/10.5281/zenodo.7951467">https://doi.org/10.5281/zenodo.7951467</a>	<a href="https://zenodo.org/record/7951467">https://zenodo.org/record/7951467</a>	Gao et al., 2023i_part2
	<a href="https://doi.org/10.5281/zenodo.7951475">https://doi.org/10.5281/zenodo.7951475</a>	<a href="https://zenodo.org/record/7951475">https://zenodo.org/record/7951475</a>	Gao et al., 2023i_part3

WRF-CMAQ_ARI	<a href="https://doi.org/10.5281/zenodo.7949895">https://doi.org/10.5281/zenodo.7949895</a>	<a href="https://zenodo.org/record/7949895">https://zenodo.org/record/7949895</a>	Gao et al., 2023j_part1
	<a href="https://doi.org/10.5281/zenodo.7950644">https://doi.org/10.5281/zenodo.7950644</a>	<a href="https://zenodo.org/record/7950644">https://zenodo.org/record/7950644</a>	Gao et al., 2023j_part2
	<a href="https://doi.org/10.5281/zenodo.7950830">https://doi.org/10.5281/zenodo.7950830</a>	<a href="https://zenodo.org/record/7950830">https://zenodo.org/record/7950830</a>	Gao et al., 2023j_part3
WRF-Chem_NO	<a href="https://doi.org/10.5281/zenodo.7943804">https://doi.org/10.5281/zenodo.7943804</a>	<a href="https://zenodo.org/record/7943804">https://zenodo.org/record/7943804</a>	Gao et al., 2023k_part1
	<a href="https://doi.org/10.5281/zenodo.7945383">https://doi.org/10.5281/zenodo.7945383</a>	<a href="https://zenodo.org/record/7945383">https://zenodo.org/record/7945383</a>	Gao et al., 2023k_part2
	<a href="https://doi.org/10.5281/zenodo.7946944">https://doi.org/10.5281/zenodo.7946944</a>	<a href="https://zenodo.org/record/7946944">https://zenodo.org/record/7946944</a>	Gao et al., 2023k_part3
	<a href="https://doi.org/10.5281/zenodo.7947169">https://doi.org/10.5281/zenodo.7947169</a>	<a href="https://zenodo.org/record/7947169">https://zenodo.org/record/7947169</a>	Gao et al., 2023k_part4
WRF-Chem_ARI	<a href="https://doi.org/10.5281/zenodo.7947050">https://doi.org/10.5281/zenodo.7947050</a>	<a href="https://zenodo.org/record/7947050">https://zenodo.org/record/7947050</a>	Gao et al., 2023l_part1
	<a href="https://doi.org/10.5281/zenodo.7948216">https://doi.org/10.5281/zenodo.7948216</a>	<a href="https://zenodo.org/record/7948216">https://zenodo.org/record/7948216</a>	Gao et al., 2023l_part2
	<a href="https://doi.org/10.5281/zenodo.7949410">https://doi.org/10.5281/zenodo.7949410</a>	<a href="https://zenodo.org/record/7949410">https://zenodo.org/record/7949410</a>	Gao et al., 2023l_part3
	<a href="https://doi.org/10.5281/zenodo.7949561">https://doi.org/10.5281/zenodo.7949561</a>	<a href="https://zenodo.org/record/7949561">https://zenodo.org/record/7949561</a>	Gao et al., 2023l_part4
WRF-Chem_BOTH	<a href="https://doi.org/10.5281/zenodo.7939221">https://doi.org/10.5281/zenodo.7939221</a>	<a href="https://zenodo.org/record/7939221">https://zenodo.org/record/7939221</a>	Gao et al. 2023m_part1
	<a href="https://doi.org/10.5281/zenodo.7943002">https://doi.org/10.5281/zenodo.7943002</a>	<a href="https://zenodo.org/record/7943002">https://zenodo.org/record/7943002</a>	Gao et al. 2023m_part2
	<a href="https://doi.org/10.5281/zenodo.7943079">https://doi.org/10.5281/zenodo.7943079</a>	<a href="https://zenodo.org/record/7943079">https://zenodo.org/record/7943079</a>	Gao et al. 2023m_part3
	<a href="https://doi.org/10.5281/zenodo.7943323">https://doi.org/10.5281/zenodo.7943323</a>	<a href="https://zenodo.org/record/7943323">https://zenodo.org/record/7943323</a>	Gao et al. 2023m_part4
WRF-CHIMERE_NO	<a href="https://doi.org/10.5281/zenodo.7951775">https://doi.org/10.5281/zenodo.7951775</a>	<a href="https://zenodo.org/record/7951775">https://zenodo.org/record/7951775</a>	Gao et al. 2023n_part1
	<a href="https://doi.org/10.5281/zenodo.7951779">https://doi.org/10.5281/zenodo.7951779</a>	<a href="https://zenodo.org/record/7951779">https://zenodo.org/record/7951779</a>	Gao et al. 2023n_part2
	<a href="https://doi.org/10.5281/zenodo.7951791">https://doi.org/10.5281/zenodo.7951791</a>	<a href="https://zenodo.org/record/7951791">https://zenodo.org/record/7951791</a>	Gao et al. 2023n_part3
	<a href="https://doi.org/10.5281/zenodo.7951793">https://doi.org/10.5281/zenodo.7951793</a>	<a href="https://zenodo.org/record/7951793">https://zenodo.org/record/7951793</a>	Gao et al. 2023n_part4
WRF-CHIMERE_ARI	<a href="https://doi.org/10.5281/zenodo.7952838">https://doi.org/10.5281/zenodo.7952838</a>	<a href="https://zenodo.org/record/7952838">https://zenodo.org/record/7952838</a>	Gao et al. 2023o_part1
	<a href="https://doi.org/10.5281/zenodo.7952840">https://doi.org/10.5281/zenodo.7952840</a>	<a href="https://zenodo.org/record/7952840">https://zenodo.org/record/7952840</a>	Gao et al. 2023o_part2
	<a href="https://doi.org/10.5281/zenodo.7952842">https://doi.org/10.5281/zenodo.7952842</a>	<a href="https://zenodo.org/record/7952842">https://zenodo.org/record/7952842</a>	Gao et al. 2023o_part3
	<a href="https://doi.org/10.5281/zenodo.7952844">https://doi.org/10.5281/zenodo.7952844</a>	<a href="https://zenodo.org/record/7952844">https://zenodo.org/record/7952844</a>	Gao et al. 2023o_part4
WRF-CHIMERE_BOTH	<a href="https://doi.org/10.5281/zenodo.7952859">https://doi.org/10.5281/zenodo.7952859</a>	<a href="https://zenodo.org/record/7952859">https://zenodo.org/record/7952859</a>	Gao et al. 2023p_part1
	<a href="https://doi.org/10.5281/zenodo.7952863">https://doi.org/10.5281/zenodo.7952863</a>	<a href="https://zenodo.org/record/7952863">https://zenodo.org/record/7952863</a>	Gao et al. 2023p_part2
	<a href="https://doi.org/10.5281/zenodo.7952865">https://doi.org/10.5281/zenodo.7952865</a>	<a href="https://zenodo.org/record/7952865">https://zenodo.org/record/7952865</a>	Gao et al. 2023p_part3
	<a href="https://doi.org/10.5281/zenodo.7952867">https://doi.org/10.5281/zenodo.7952867</a>	<a href="https://zenodo.org/record/7952867">https://zenodo.org/record/7952867</a>	Gao et al. 2023p_part4

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Thank you again for your help and please let me know if we need to make any further revisions to improve the quality of our paper.

Sincerely yours,

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