Weiyi Wang

Gender: Male

Date of Birth: Jan 1997

Place of Birth: China

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**Education**

* PhD student, Institute of Atmospheric Physics, Chinese Academy of Science, Beijing, China, 09.2019-
* B.S., Yunnan University, Yunnan, China, 09.2015-07.2019

**Research Interests**

1. Atmospheric aerosols: I have been studying the impact of changes in emissions of aerosols and their precursors on life cycles of atmospheric aerosols (e.g., chemistry, transport, and deposition), which are simulated by global climate models, Community Earth System Model (CESM). The radiative forcings of aerosols and their impact on climate change are also investigated using climate model.
2. Variable-resolution model: I have been investigating the impact of model resolution on simulating atmospheric aerosols, chemistry, and meteorology over East Asia using variable-resolution CESM (VR-CESM). I also use VR-CESM with chemistry to study meteorology-chemistry coupling and interactions.

**Publications**

* **Wang, W.**, Liu, X., Wu, C., Lin, G., Wang, Y., Lu, Z., ... & Wei, L. (2023). Fast response of East Asian precipitation in June 2020 to local and remote aerosol emission reductions during COVID-19. Journal of Climate, 1-42.
* Jiang, X., Wu, C., Chen, B., **Wang, W.**, Liu, X., Lin, Z., & Han, Z. (2023). Exploring a variable-resolution approach for simulating the regional climate in Southwest China using VR-CESM. Atmospheric Research, 106851.
* Wei, L., Lu, Z., Wang, Y., Liu, X., **Wang, W.**, Wu, C., ... & Jiang, Y. (2022). Black carbon-climate interactions regulate dust burdens over India revealed during COVID-19. Nature communications, 13(1), 1839.

**Awards**

* Outstanding Student Presentation Awards at the American Geophysical Union (AGU) Fall Meeting, 2022