

Supplemental materials

River-induced circulations alter ozone distribution, source contributions, and chemical sensitivity in a river–valley city along the Yangtze River

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Figure captions

Figure S1. Distribution of annual anthropogenic emissions of Nanjing: (a) NO_x, (b) VOC, (c) CO, and (d) PM_{2.5}. Unit: t year⁻¹ km⁻².

Figure S2. Comparison of simulated (red dashed lines) and observed (black solid lines) daily MDA8 O₃ concentrations for January, April, July, and October.

Figure S3. Monthly average distribution of major meteorological parameters in July for eight regions of Nanjing. (a) T2 (°C), (b) daily maximum T2 (°C), (c) WS10 (m/s), (d) SW (W/m²), (e) PBLH (m), (f) RH2 (%).

Figure S4. Diurnal O₃ anomaly profiles (hourly minus daily mean, µg/m³) for January, April, July, and October. Black contour lines indicate the zero anomaly boundary.

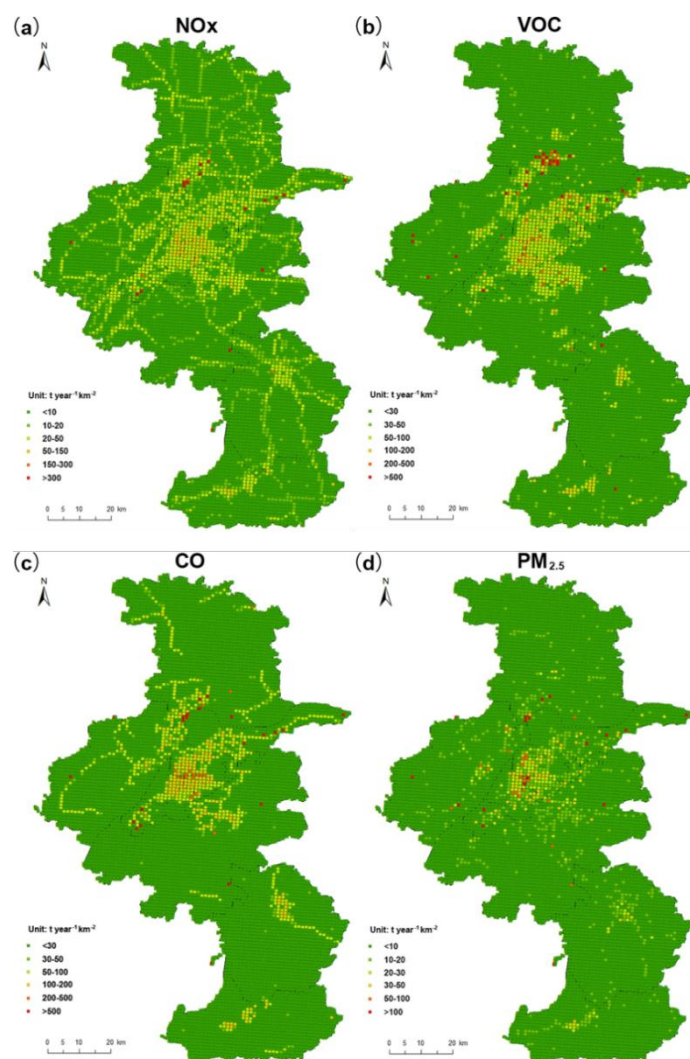


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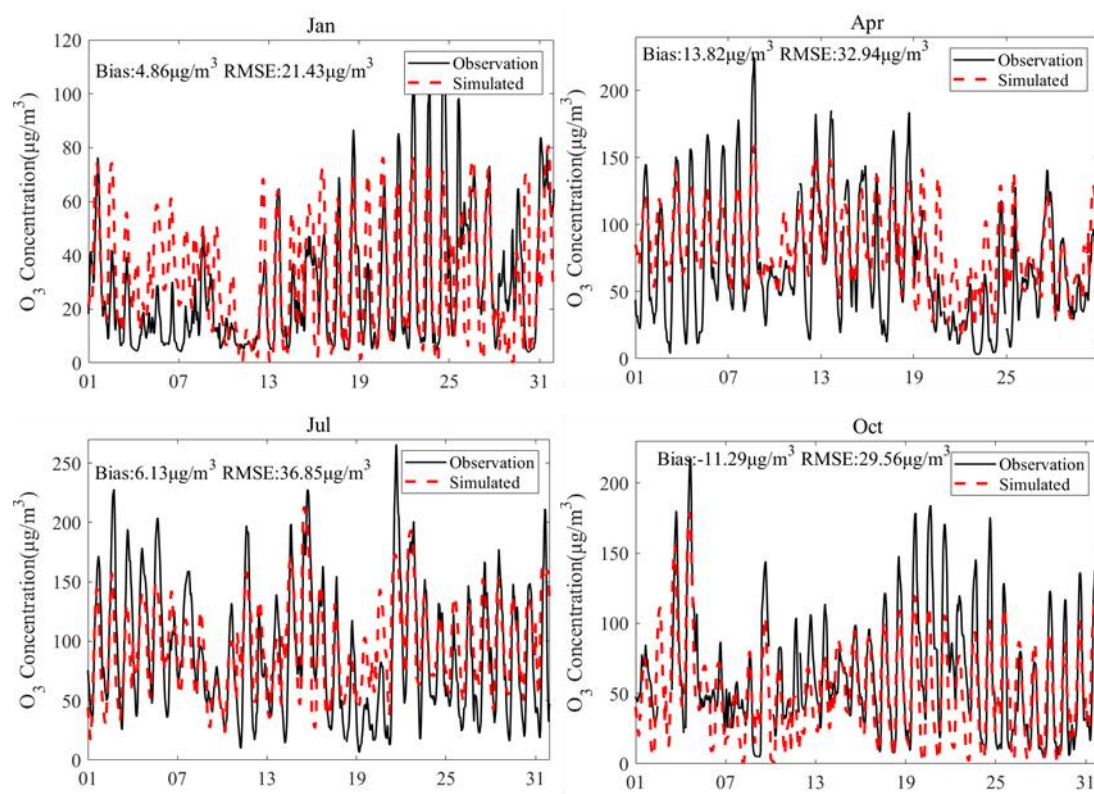


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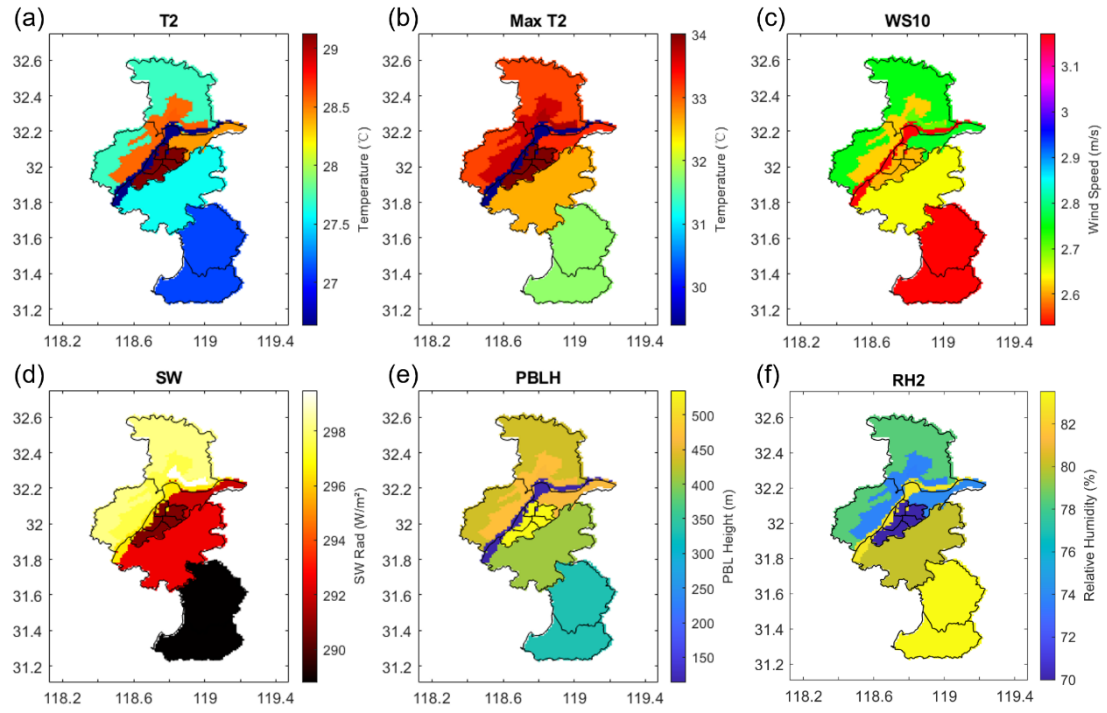


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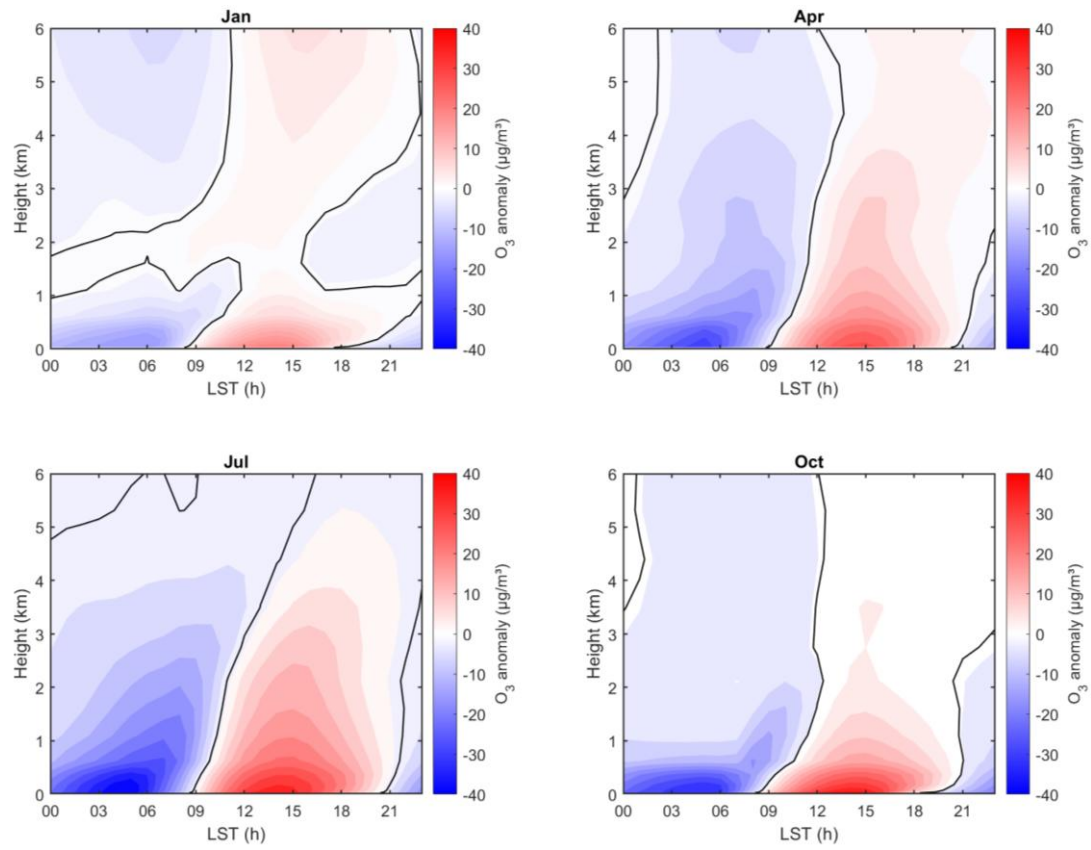


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