

*Supplement of*

**Reconstructed daily ground-level O<sub>3</sub> in China over 2005-2021 for climatological, ecological, and health research**

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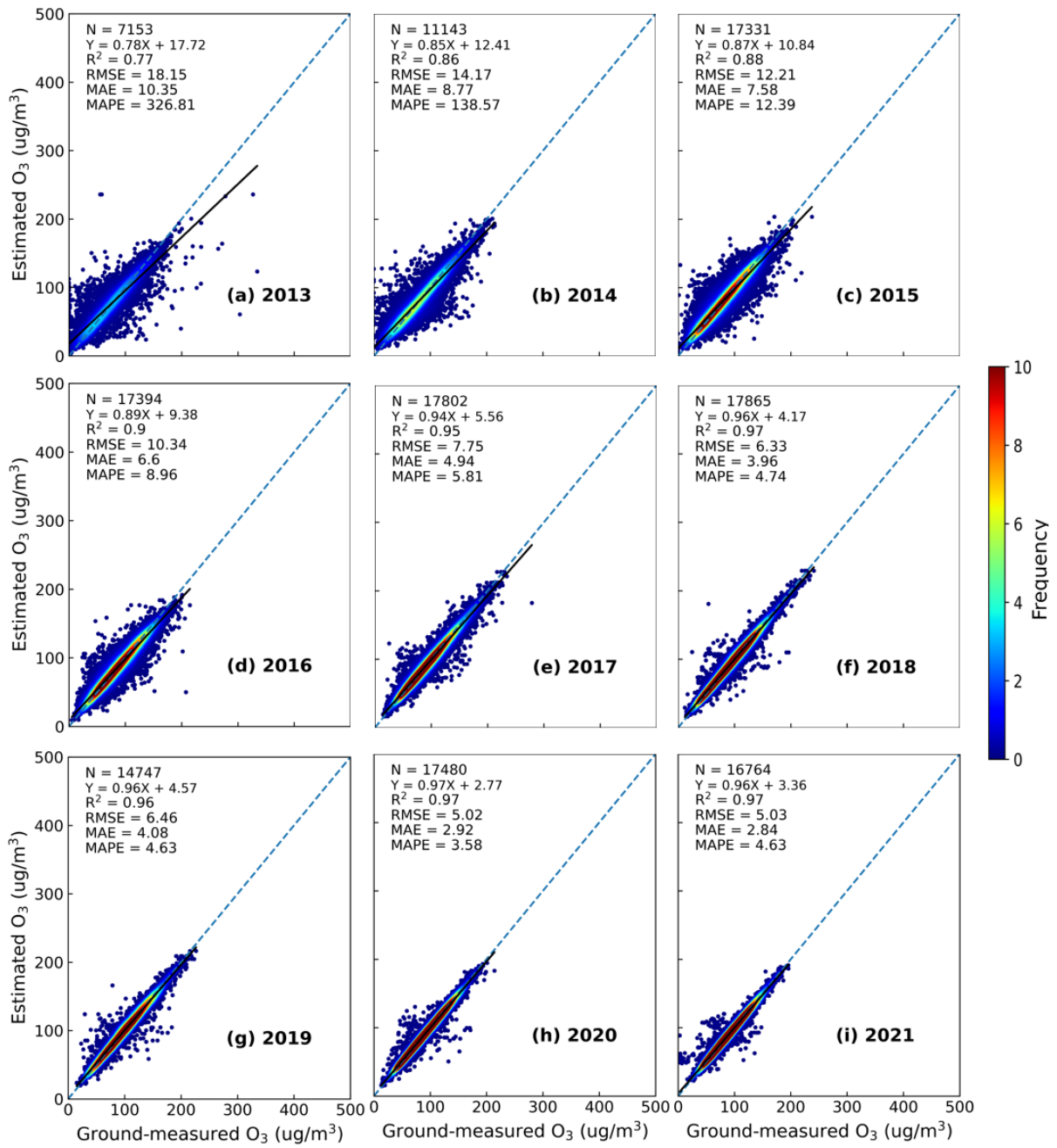


Fig. S1. Density scatterplots of monthly mean MDA8 O<sub>3</sub> concentrations for (a-i) each year from 2013 to 2021 in China.

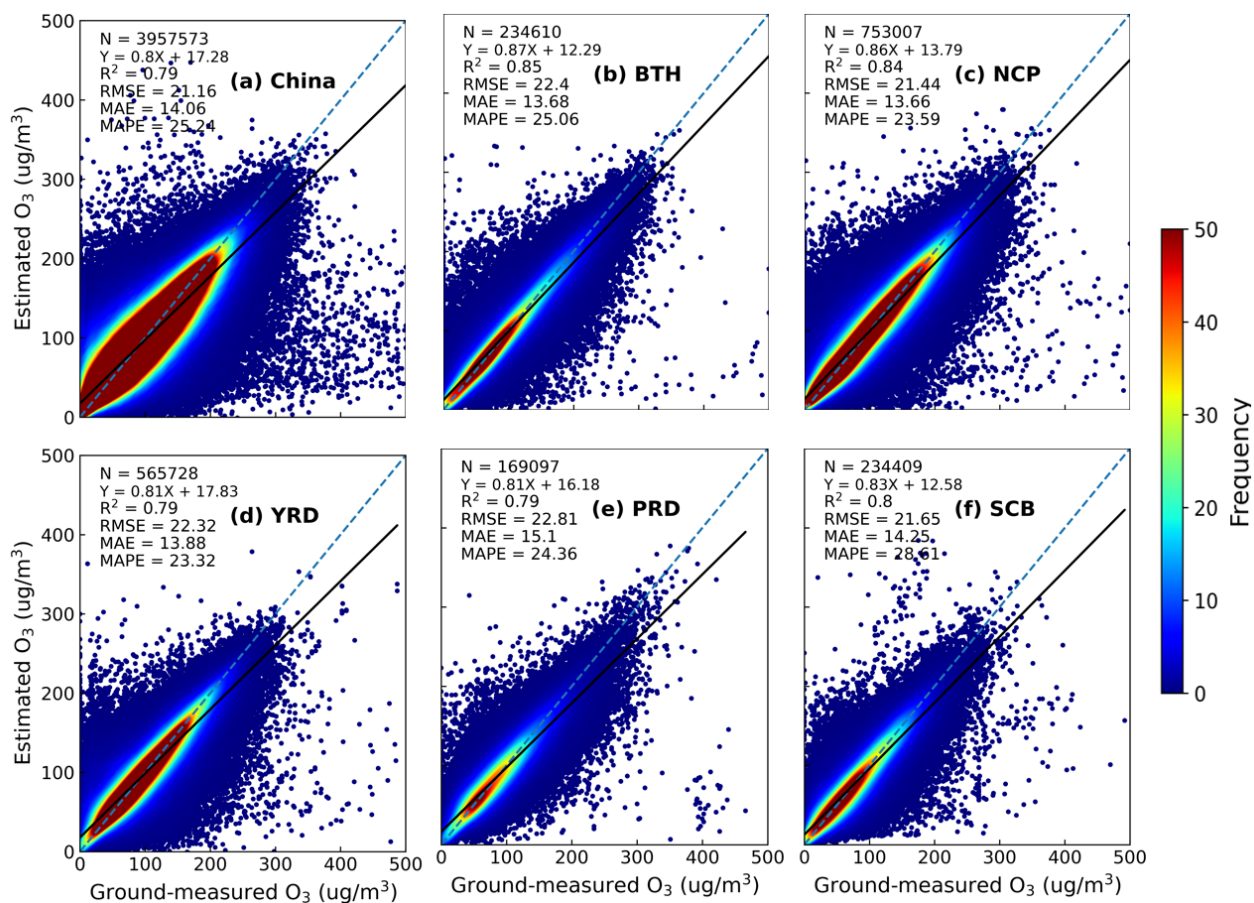


Fig. S2. Density scatterplots of the station-based cross-validation results of O<sub>3</sub> estimates from 2013 to 2021 (a) in China, (b) the Beijing-Tianjin-Hebei (BTH), (c) the North China Plain (NCP), (d) the Yangtze River Delta (YRD), (e) the Pearl River Delta (PRD), and (f) the Sichuan Basin (SCB).

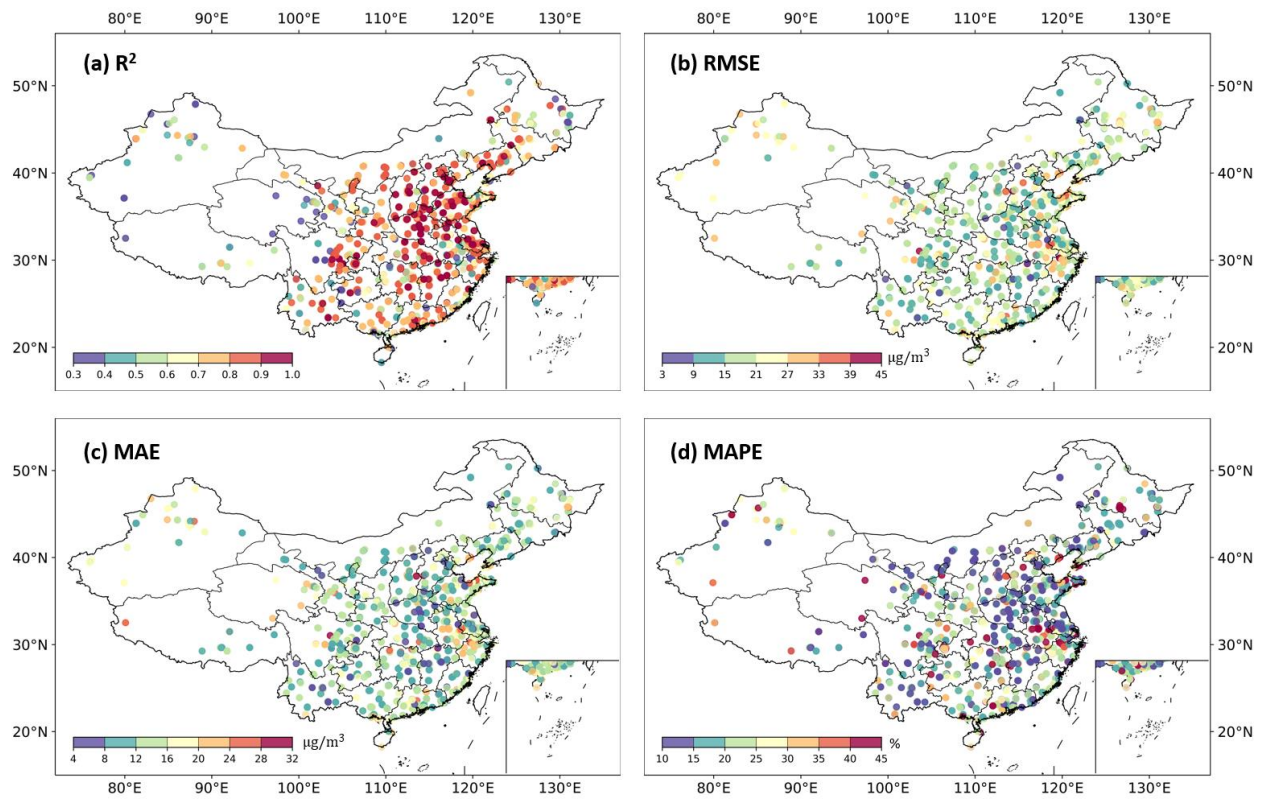


Fig. S3. Individual-station-scale station-based cross-validation results of O<sub>3</sub> estimates from 2013 to 2021 in China.

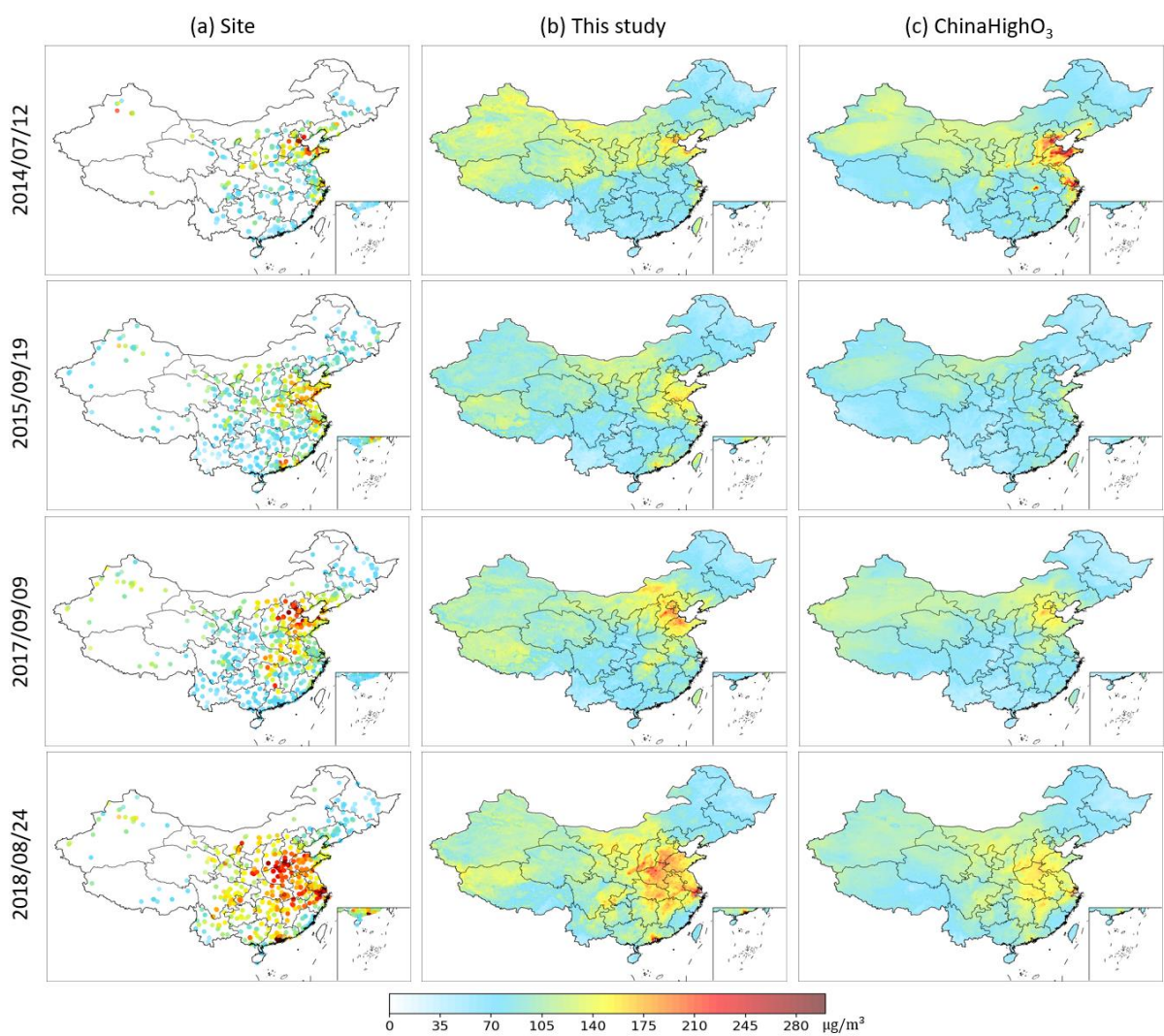


Fig. S4. Comparisons of O<sub>3</sub> distribution reconstructed by different O<sub>3</sub> concentration datasets. From the left to right column, it shows in situ O<sub>3</sub> concentration measurements (a), the O<sub>3</sub> dataset generated in this study (b), and ChinaHighO<sub>3</sub> (c), respectively. Dates are given in the format year/month/day.