

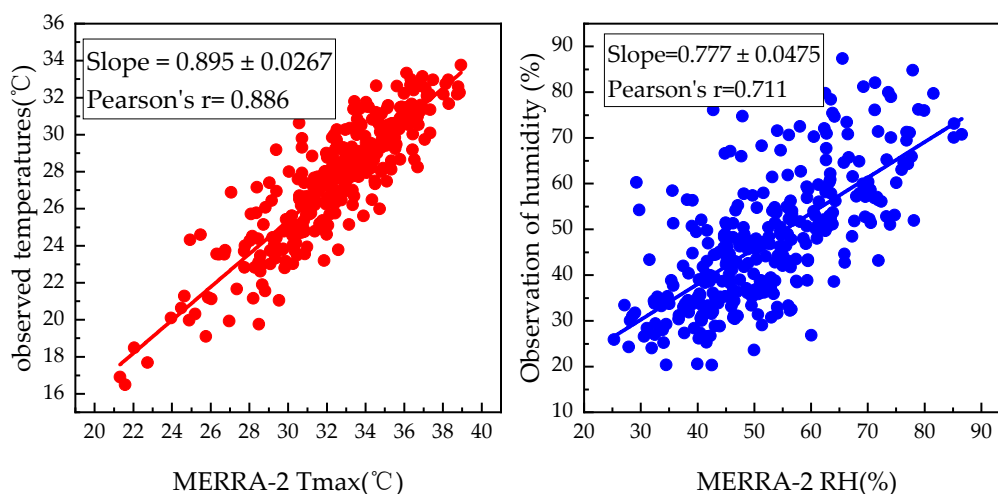
# Supplementary Materials: Long-Term Variations of Meteorological and Precursor Influences on Ground Ozone Concentrations in Jinan, North China Plain, from 2010 to 2020

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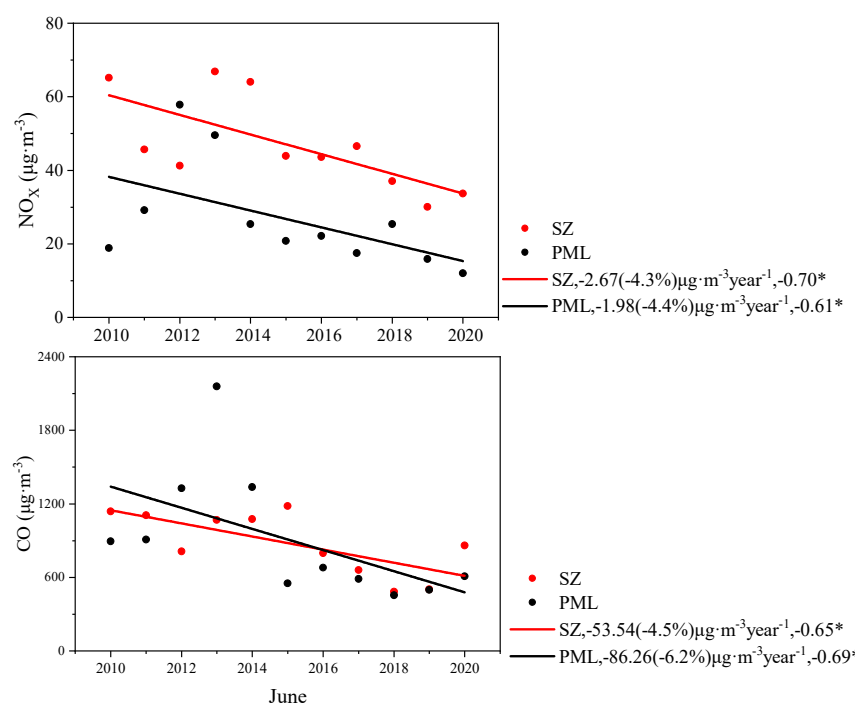
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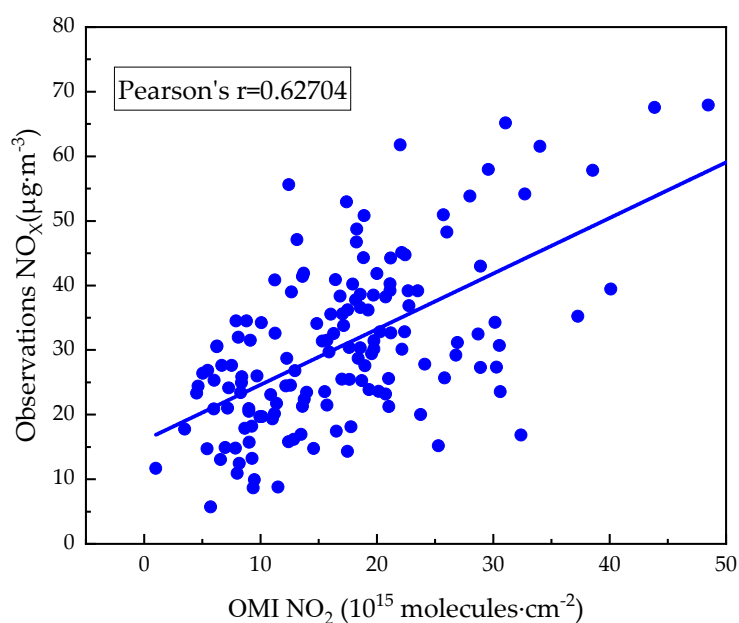
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**Figure S1.** Validation of MERRA-2 data by meteorological data from ground observations in June 2020.



**Figure S2.** Ground-based observations of trends in  $\text{NO}_x$  and  $\text{CO}$ . \*indicates that the requirement of significance was reached ( $p < 0.05$ ).



**Figure S3.** Validation of ground-observed  $\text{NO}_x$  against satellite  $\text{NO}_2$ .