

Supporting Information for

Aerosol transport pathways and source attribution in China

during the COVID-19

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Contents of this file

Figures S1 to S4

Introduction

This auxiliary material contains supporting figures for Aerosol transport pathways and source attribution in China during the COVID-19 outbreak.

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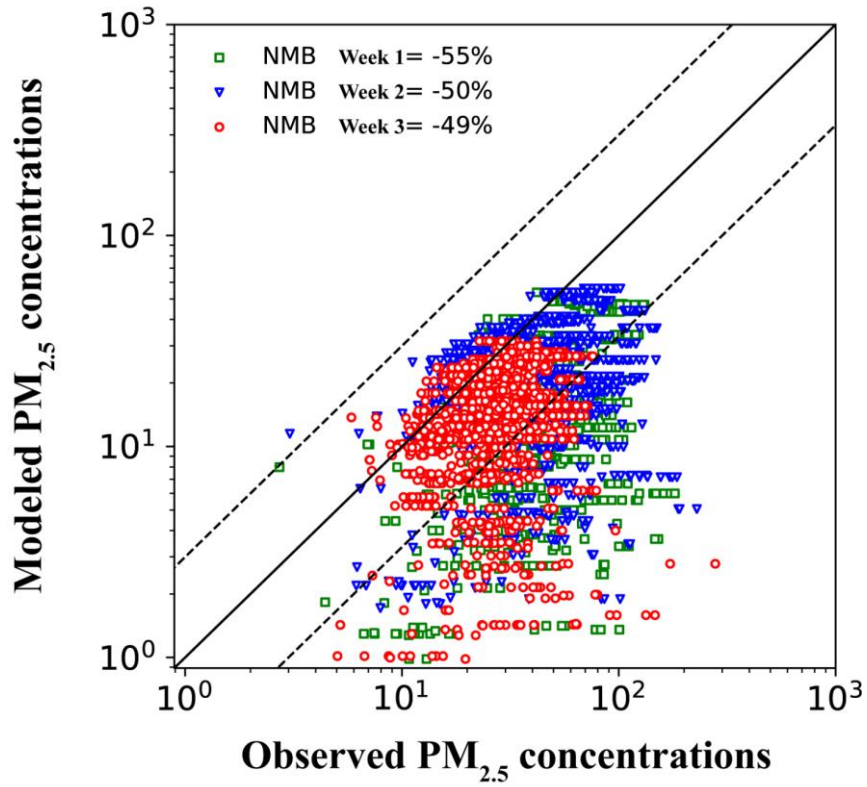


Figure S1. Comparisons of observed and modeled mean near-surface concentrations of $PM_{2.5}$ (units: μgm^{-3}) in China during the three time periods. Solid lines mark the 1:1 ratio, and dashed lines mark the 1:3 and 3:1 ratios. Normalized mean bias (NMB) between observation and simulation is shown at the top left of the panel. $NMB = 100\% \times \sum(M_i - O_i) / \sum O_i$, where M_i and O_i are the modeled and observed values at site i , respectively.

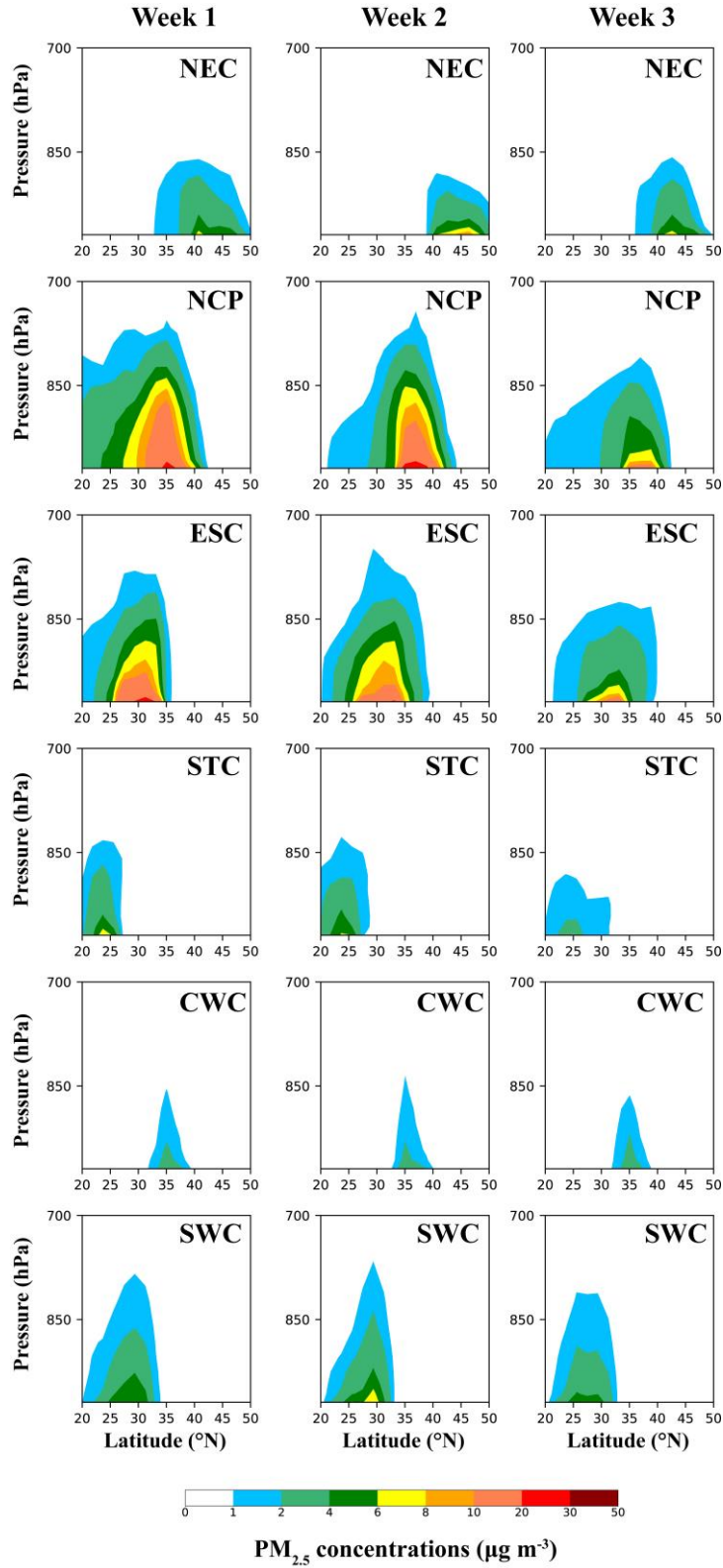


Figure S2. Vertical and latitudinal cross section of mean PM_{2.5} concentrations (μg m⁻³) averaged over the longitudinal extent of six major source regions originating from local emissions (within the corresponding source region) during the three time periods.

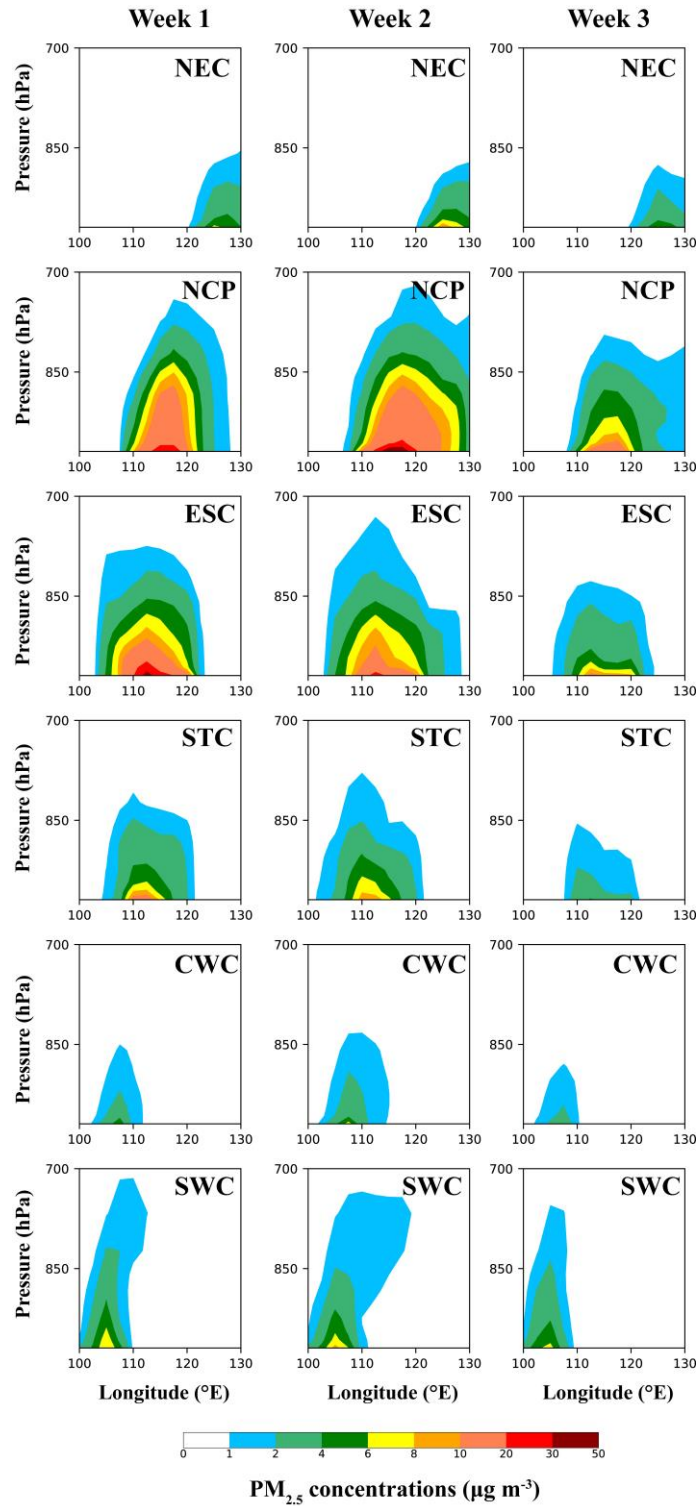


Figure S3. Vertical and longitudinal cross section of mean PM_{2.5} concentrations (µg m⁻³) averaged over the latitudinal extent of six major source regions originating from local emissions (within the corresponding source region) during the three time periods.

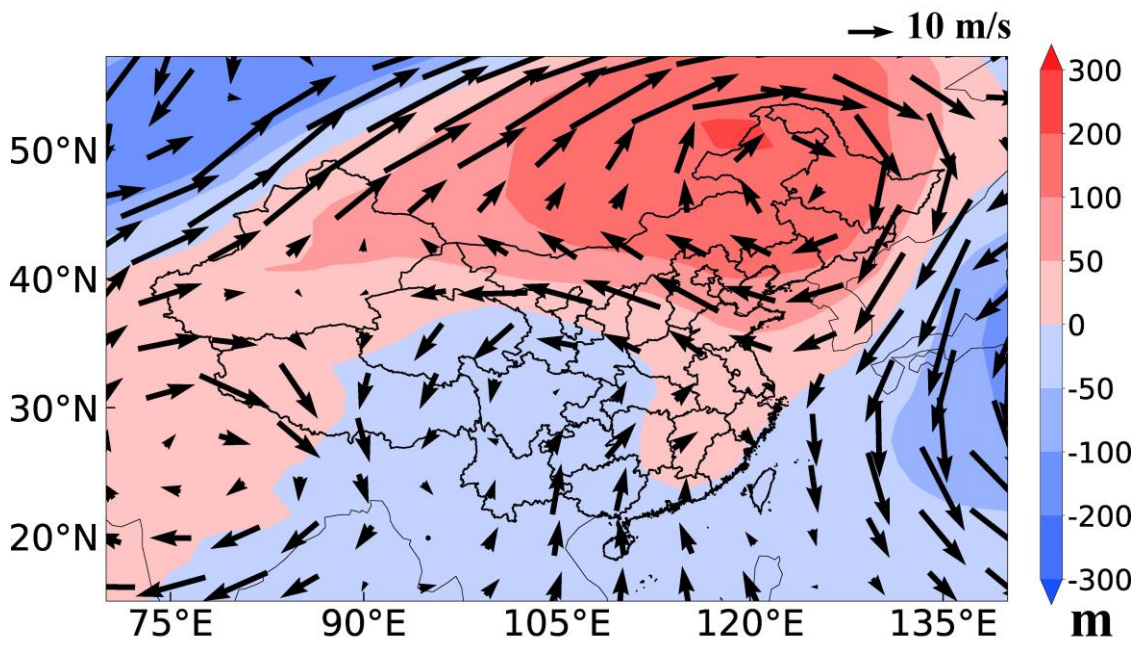


Figure S4. Composite differences in 500 hPa geopotential height (GPH, m) and 500 hPa wind (m s^{-1} , vector) between February 11, 2020 and monthly mean of February 2020.