

Supplementary Materials:

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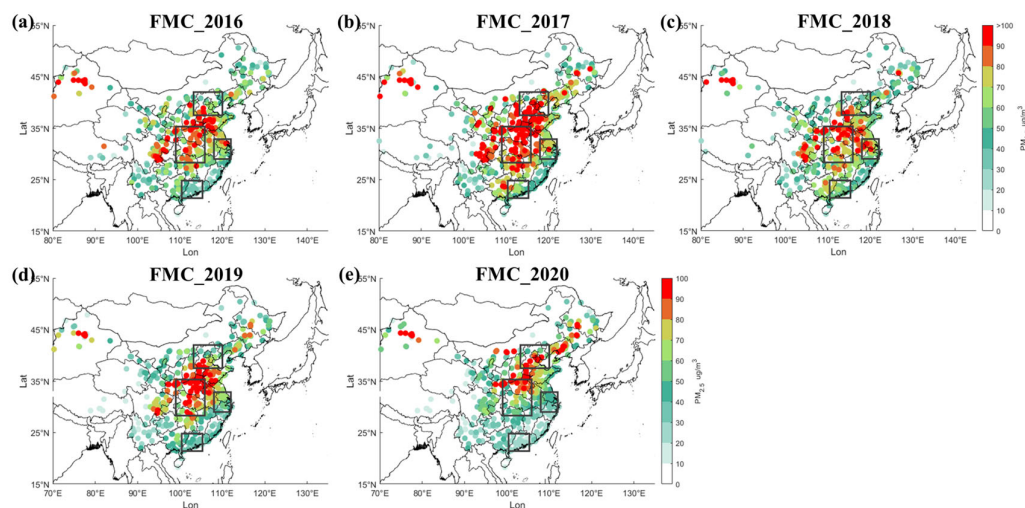


Figure S1. Distributions of monthly average PM_{2.5} mass concentration (µg m⁻³) in China. (a) FMC_2016. (b) FMC_2017. (c) FMC_2018. (d) FMC_2019. (e) FMC_2020.

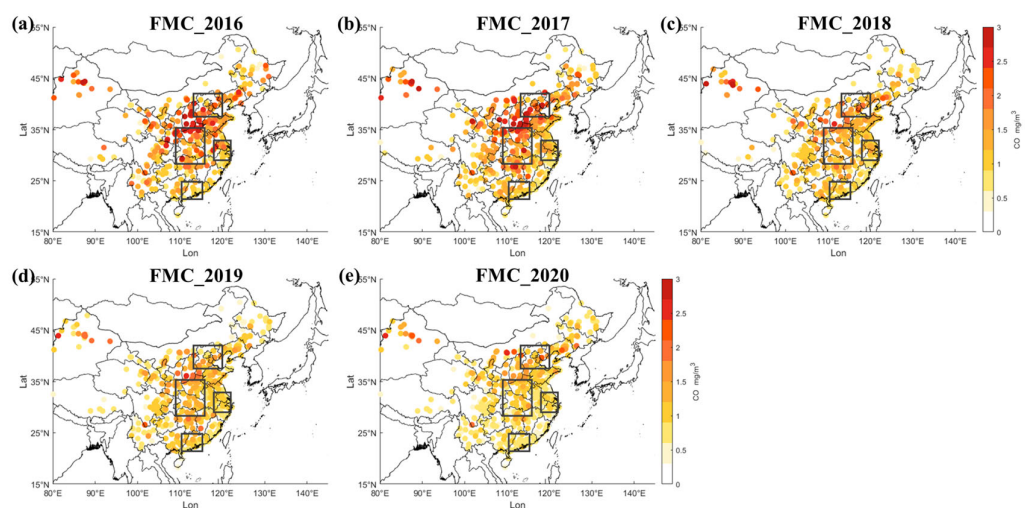


Figure S2. Distributions of monthly average CO mass concentration (mg m⁻³) in China. (a) FMC_2016. (b) FMC_2017. (c) FMC_2018. (d) FMC_2019. (e) FMC_2020.

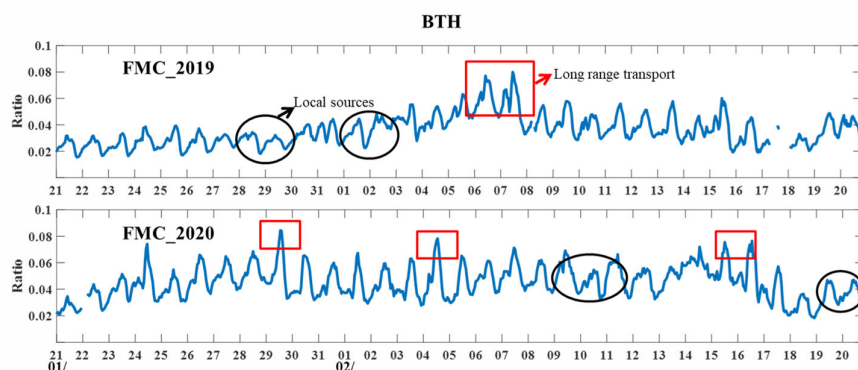


Figure S3. The values of CO/NO_x during FMC_2019 and FMC_2020 in the BTH. The red rectangles represent long range transport of CO. The black ovals represent selected periods with similar meteorological conditions affected by local sources.

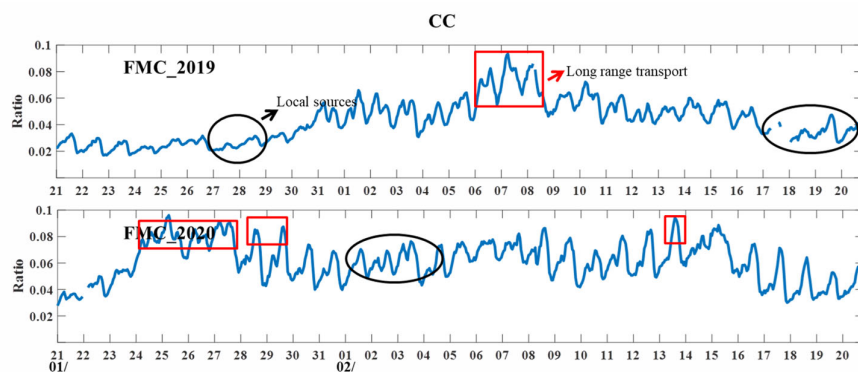


Figure S4. As in Figure S3, but in the CC.

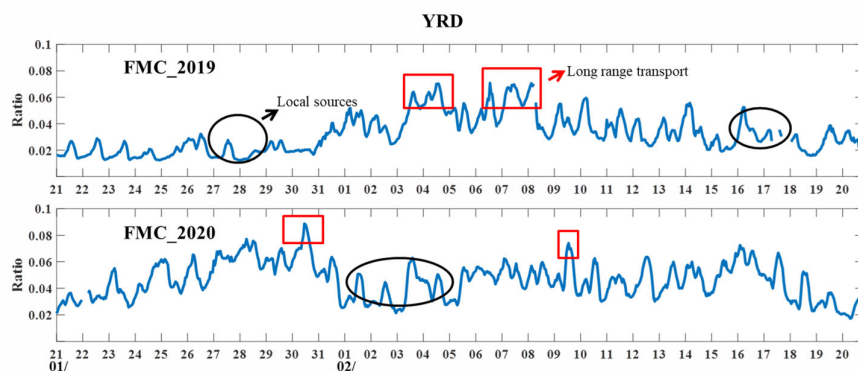


Figure S5. As in Figure S3, but in the YRD.

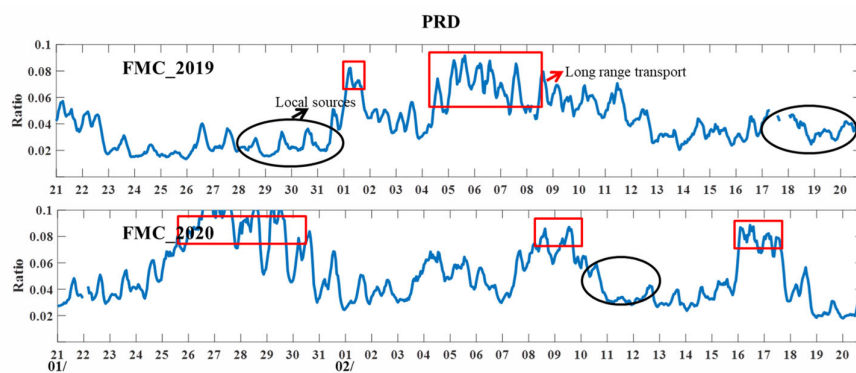


Figure S6. As in Figure S3, but in the PRD.