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Supplement of

Long-term real-time measurements of aerosol particle composition in Beijing, China: seasonal variations, meteorological effects, and source analysis

Y. L. Sun et al.

Correspondence to: Y. L. Sun (sunyele@mail.iap.ac.cn)

Table S1. Threshold values (75th percentile, μg m^{-3}) for the PSCF of aerosol species during four seasons.

	Summer	Fall	Winter	Spring
Org	30.0	36.9	43.6	29.2
SO_4^{2-}	14.4	9.6	10.8	10.9
NO_3^-	21.4	17.3	16.6	20.9
Cl^-	1.0	2.0	4.7	2.3

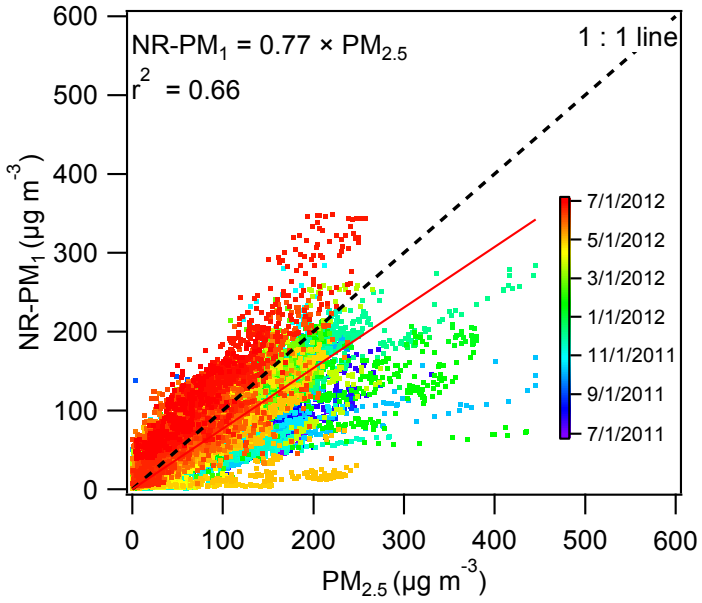

Fig. S1. Correlation between NR-PM_1 and $PM_{2.5}$ for the entire year.

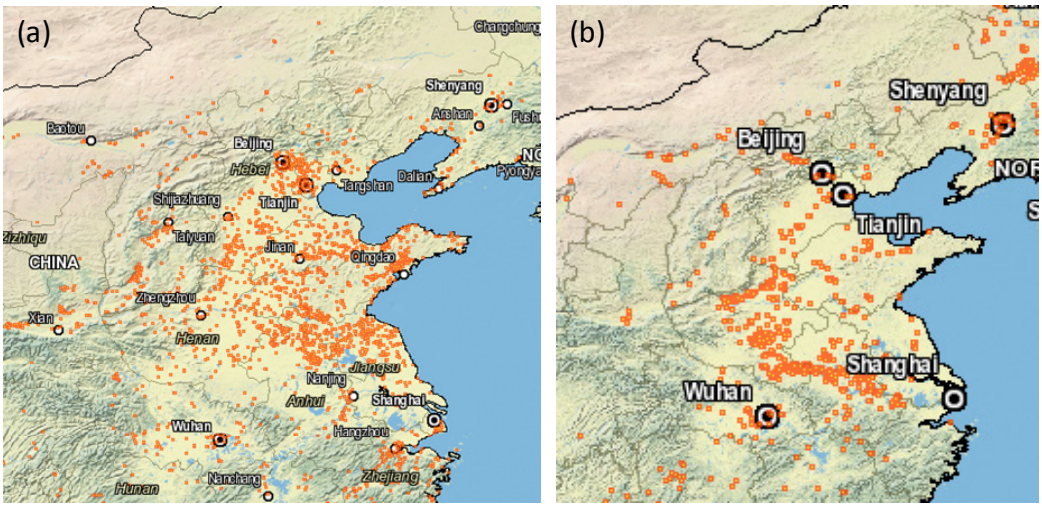

Fig. S2. Fire spots in north China plain during (a) 15 – 30 June, 2012 and (b) 1 – 15 October, 2011 (https://firms.modaps.eosdis.nasa.gov/firemap/).

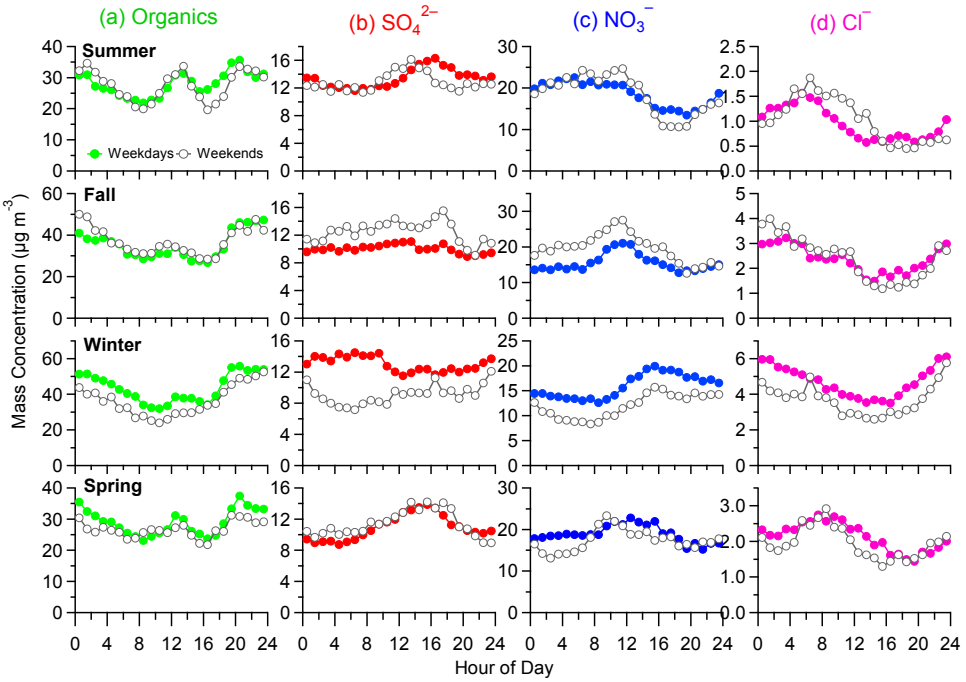

Fig. S3. Comparison of the average diurnal cycles of (a) organics, (b) SO_4^{2-}, (c) NO_3^-, and (d) Cl^- between weekdays and weekends during four seasons.

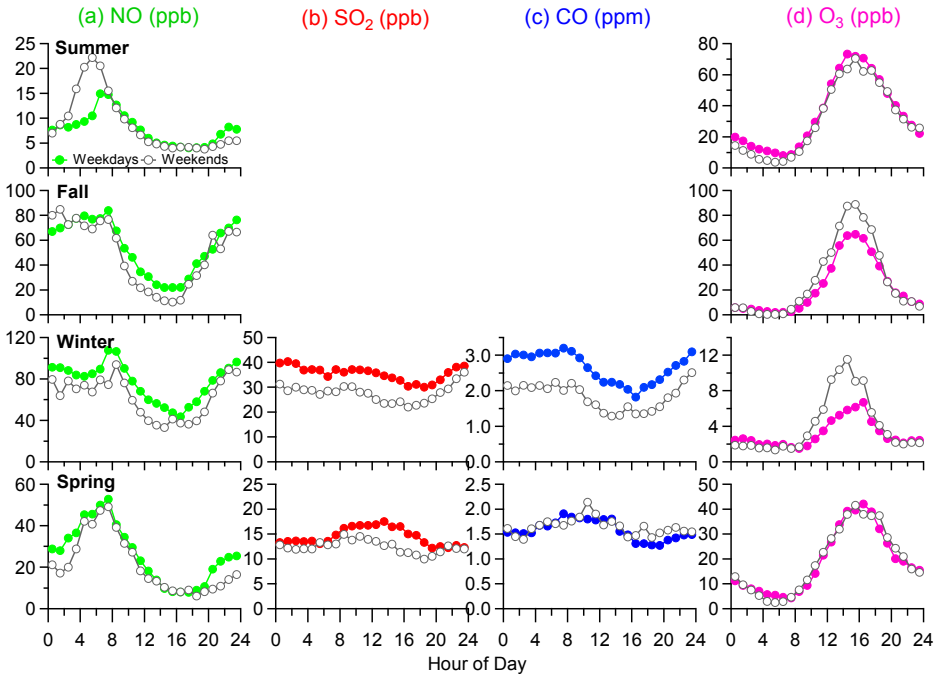

Fig. S4. Comparison of the average diurnal cycles of (a) NO, (b) SO_2, (c) CO, and (d) O_3 between weekdays and weekends during four seasons. SO_2 and CO were not measured in summer and fall in this study.